



**Cape Fear Community College**

**2025-2026 Catalog**

|                                                |     |
|------------------------------------------------|-----|
| 2025-2026 Catalog                              | 1   |
| From the President                             | 5   |
| Mission Statement                              | 6   |
| Vision Statement                               | 6   |
| Goals                                          | 6   |
| EMPOWER TO ACHIEVE                             | 12  |
| Partnerships with Business Industry            | 43  |
| Partnerships with Community Agencies           | 44  |
| Partnerships with Four-Year Institutions       | 44  |
| Academic Integrity/Cheating & Plagiarism       | 59  |
| Academic Standing: Warning & Probation         | 60  |
| Attendance Policy                              | 61  |
| Grades                                         | 63  |
| Graduating from CFCC                           | 67  |
| Graduation Honors                              | 69  |
| Withdraw Information                           | 69  |
| Student Code of Conduct                        | 71  |
| Acceptable Use Policy                          | 74  |
| Dress & Attire                                 | 77  |
| Drug & Alcohol Policy                          | 77  |
| Expressive Activity                            | 80  |
| Internet and Email Use                         | 82  |
| Tobacco Free Campus                            | 83  |
| Weapons Prohibition                            | 84  |
| Children on Campus Policy                      | 85  |
| Chosen Name & Identity Policy                  | 85  |
| Communicable Disease Policy                    | 86  |
| Complaint & Grievance Procedures               | 87  |
| Emergency Preparedness                         | 90  |
| Evacuation Policy                              | 90  |
| Non-Discrimination Policy                      | 91  |
| Right to Know Act                              | 92  |
| Title IX Policy                                | 92  |
| Title IX Sexual Harassment Policy & Procedures | 96  |
| Alternative Transportation                     | 107 |
| Change of Name, Address, Phone Number          | 108 |
| College Closing & Delays                       | 108 |
| Display or Distribution of Materials           | 109 |
| Electronic Signature                           | 110 |
| No Solicitation Policy                         | 110 |
| Parking                                        | 111 |
| Parking & Security Permits                     | 111 |
| Patent & Copyright Policy                      | 111 |

|                                                                                |     |
|--------------------------------------------------------------------------------|-----|
| Student Privacy Information                                                    | 112 |
| What is FERPA?                                                                 | 113 |
| Career & Technical Education Programs                                          | 116 |
| Health & Human Services Programs                                               | 117 |
| University Transfer & Partnerships Programs                                    | 117 |
| Programs for Dually Enrolled High School Students (Career and College Promise) | 117 |
| A/C, Heating & Refrigeration Department                                        | 117 |
| Accounting & Finance Department                                                | 118 |
| Architectural Technology Department                                            | 119 |
| Art Department                                                                 | 119 |
| Assoc Degree Nursing Lpn to Rn Department                                      | 120 |
| Assoc Fine Arts Music Department                                               | 121 |
| Assoc Fine Arts Theatre Department                                             | 121 |
| Assoc Fine Arts Visual Arts Department                                         | 121 |
| Associate Degree Nursing Department                                            | 121 |
| Associate in Arts Department                                                   | 121 |
| Associate in Engineering Department                                            | 122 |
| Associate in General Education Department                                      | 122 |
| Associate in Science Department                                                | 122 |
| Automotive Customizing Tech Department                                         | 122 |
| Automotive Systems Technology Department                                       | 122 |
| Baking and Pastry Arts Department                                              | 123 |
| Basic Law Enforcement Training Department                                      | 124 |
| Boat Building Department                                                       | 124 |
| Boat Manufacture & Service Department                                          | 124 |
| Business Administration Department                                             | 124 |
| Business Analytics Department                                                  | 126 |
| Cardiovascular Sonography Department                                           | 126 |
| Chemical Technology Department                                                 | 127 |
| Collision Repair & Refinishing Department                                      | 127 |
| Community Spanish Interpreter Department                                       | 128 |
| Computed Tomography & MRI Tech Department                                      | 129 |
| Computer-Integrated Machining Department                                       | 129 |
| Construction Management Tech Department                                        | 130 |
| Cosmetology Department                                                         | 130 |
| Criminal Justice Technology Department                                         | 131 |
| Culinary Arts Department                                                       | 132 |
| Cyber Crime Technology Department                                              | 132 |
| Dental Assisting Department                                                    | 133 |
| Dental Hygiene Department                                                      | 133 |
| Diesel & Heavy Equipment Tech Department                                       | 134 |
| Early Childhood Associate Department                                           | 134 |
| Electrical Systems Tech Department                                             | 135 |

|                                           |     |
|-------------------------------------------|-----|
| Electronics Engineering Tech Department   | 136 |
| Emergency Management Department           | 137 |
| Emergency Medical Science Department      | 137 |
| Esthetics Technology Department           | 138 |
| Film & Video Production Tech Department   | 138 |
| Fire Protection Technology Department     | 139 |
| Graphic Design Department                 | 139 |
| Health & Fitness Science Department       | 140 |
| Hospitality Management Department         | 141 |
| Information Technology Department         | 142 |
| Interior Design Department                | 143 |
| Interpreter Education Department          | 144 |
| Landscape Gardening Department            | 144 |
| Marine Technology Department              | 145 |
| Mechanical Engineering Tech Department    | 146 |
| Mechatronics Engineering Tech Department  | 147 |
| Medical Assisting Department              | 147 |
| Medical Laboratory Technology Department  | 147 |
| Medical Office Administration Department  | 148 |
| Medical Sonography Department             | 149 |
| Neurodiagnostic Technology Department     | 149 |
| Nuclear Technology Department             | 150 |
| Occupational Therapy Assistant Department | 150 |
| Paralegal Technology Department           | 150 |
| Pharmacy Technology Department            | 151 |
| Plumbing Department                       | 152 |
| Practical Nursing Department              | 152 |
| Radiography Department                    | 152 |
| Simulation & Game Development Department  | 153 |
| Social & Human Services Tech Department   | 154 |
| Surgical Technology Department            | 155 |
| Sustainability Technology Department      | 155 |
| Veterinary Medical Technology Department  | 155 |
| Welding Technology Department             | 156 |
| All Programs                              | 157 |
| Total Credits: 38-39                      | 540 |
| All Courses                               | 592 |



## From the President



Thank you for considering Cape Fear Community College! As one of the largest and oldest community colleges in North Carolina, CFCC has helped thousands of students improve their lives through education for more than half a century. At CFCC, there are many opportunities awaiting you, and it is our hope that you will find a class, a program, and ultimately a career path that you will find rewarding.

Our curriculum features over 200 academic and job training programs which include two-year associate degrees along with a variety of diploma and certificate options for specialized training. Many of our programs have been recognized by national and regional accrediting agencies and other professional organizations for achieving high standards and best practices.

We take so much pride in our college, but more importantly, we take pride in the success of our students. Each member of our faculty and staff is here to help you reach your goal. Our class sizes, whether offered online or face-to-face, are designed to be small so that students can experience engaged, hands-on instruction. In addition, there are numerous resources outside the classroom which can provide extra academic and personal support if you need it.

Our staff are experts in their fields and are the most dedicated and talented you'll find at any college or university. All of these resources are offered as part of the collective CFCC experience, which is designed to help you reach your educational goal, whether it is to earn a degree, improve your job skills, prepare for a new career, or for your personal enrichment.

For more information regarding CFCC's leadership, click [here](#).

Welcome!

## About us...

Cape Fear Community College is a comprehensive community college that offers education and training services through numerous **CAREER AND TECHNICAL CURRICULA** in such broad areas as health care, business, engineering technologies, computer sciences, architecture/construction/ interior design, law enforcement and numerous other fields, **UNIVERSITY TRANSFER/PARALLEL** studies in the freshman and sophomore years of baccalaureate programs, and a host of **ECONOMIC AND WORKFORCE DEVELOPMENT** programs that can be broadly clustered into such categories as Basic Skills (including Adult High School and GED, among other programs), Occupational Extension (custom-designed training related directly to the in-service training needs of various professions), and Community Services/Self-Supporting classes that may include a wide range of avocational interests.

CFCC is one of fifty-eight institutions comprising the [North Carolina Community College System](#). The North Carolina Community College System and its constituent institutions operate in accord with legislation enacted by the North Carolina General Assembly and as contained in Chapter 115D of the North Carolina General Statutes. Governance of Cape Fear Community College is further defined by policies, rules, and procedures as promulgated in accord with state and federal laws by the [North Carolina State Board of Community Colleges](#), the [Cape Fear Community College Board of Trustees](#), and College officials.

Cape Fear Community College's official service area includes New Hanover and Pender counties. CFCC's Wilmington campus is located in downtown Wilmington and the North Campus is located in Castle Hayne. CFCC offers classes at the Burgaw Center and at the Alston W. Burke Center in Pender County. Several CFCC technical and vocational programs are unique to southeastern North Carolina and to the state as a whole, and the College therefore serves as a regional provider of workforce training. The number of different students annually enrolling at the College typically exceeds 27,000.

Welcome!

## Mission Statement

---

At Cape Fear Community College, our mission is to provide dynamic and supportive learning opportunities, environments, and services fostering academic achievement, career-focused training, professional and personal success.

## Vision Statement

---

Cape Fear Community College is a premier educational attainment and innovative training resource for our service area with the power to transform lives and strengthen our communities. By providing opportunity and support, we empower every student to achieve their highest potential. Our intention is for Cape Fear students to complete their educational goals, inspired to lead, thrive, and contribute meaningfully to our communities locally and beyond.

## Goals

---

1. Offer innovative and accessible educational programs that meet the diverse needs of our learners.
  - Build on existing delivery formats that improve success and completion rates.
  - Respond to local economic and workforce needs by developing programs with multiple entry points and outcomes.
  - Create pathways to career and credit-bearing degrees.
2. Support students to persist and complete their educational goals by providing robust services and resources.
  - Provide support for personalized success and learning pathways.
  - Expand and enhance learning support opportunities to increase student engagement.
  - Increase student awareness of financial and personal support resources to encourage persistence and completion.
3. Cultivate mutually supportive partnerships with business, industry, and educational entities to enhance career and persistence opportunities for students and graduates.
  - Develop career and job placement opportunities with local business and industry.
  - Develop direct-admit opportunities with higher education institutions.
  - Engage external partners to develop a culture of support and persistence.

*CFCC Board of Trustees approved November 21, 2024*

Welcome!

## Institutional and Program Accreditation

### Institutional Accreditation

Cape Fear Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees. Cape Fear Community College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Cape Fear 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](http://www.sacscoc.org)).

For additional information regarding Student Achievement and State Authorization information, please see the [Institutional Effectiveness and Planning webpage](#).

**Program Accreditations**

| PROGRAM                                        | AGENCY NAME                                                                                                                                                  | ADDRESS                                                                                                | PHONE                                  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------|
| Associate Degree Nursing                       | Accreditation Commission for Education in Nursing (ACEN)                                                                                                     | 3390 Peachtree Road NE, Suite 1400<br>Atlanta, GA 30326                                                | (404)<br>975-5000                      |
| Associate Degree Nursing LPN to ADN            | Accreditation Commission for Education in Nursing (ACEN)                                                                                                     | 3390 Peachtree Road NE, Suite 1400<br>Atlanta, GA 30326                                                | (404)<br>975-5000                      |
| Basic Law Enforcement Training                 | North Carolina Department of Justice/Criminal Justice Standards Division                                                                                     | PD Drawer 149<br>Raleigh, NC 27602-0149                                                                | (919)<br>661-5980                      |
| Bonnie Sanders Burney Child Development Center | Division of Child Development and Early Education (DCDEE)<br>National Association for the Education of Young Children (NAEYC)                                | 2201 Mail Service Center<br>Raleigh, NC 27699-2201<br>1401 H St. NW, Suite 600<br>Washington, DC 20005 | (919)<br>527-6335<br>(800)<br>424-2460 |
| Cardiovascular Sonography                      | Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS), and Commission on Accreditation of Allied Health Education Programs (CAAHEP) | 9355 – 113th St. N, #7709<br>Seminole, FL 33775                                                        | (727)<br>210-2350                      |
| Cosmetology                                    | North Carolina Board of Cosmetic Art Examiners                                                                                                               | 121 Edinburgh South Drive, Suite 209<br>Cary, NC 27511                                                 | (919)<br>736-6123                      |
| Criminal Justice Technology                    | North Carolina Criminal Justice Education and Training Standards Commission                                                                                  | PO Drawer 149<br>Raleigh, NC 27602                                                                     | (919)<br>661-5980                      |
| Dental Assisting                               | Commission on Dental Accreditation (CODA)                                                                                                                    | 211 East Chicago Avenue<br>Chicago, Illinois 60611                                                     | (800)<br>232-6108                      |
| Dental Hygiene                                 | Commission on Dental Accreditation (CODA)                                                                                                                    | 211 East Chicago Avenue<br>Chicago, Illinois 60611                                                     | (800)<br>232-6108                      |
| Early Childhood Education                      | National Association for the Education of Young Children (NAEYC)<br>Commission on the Accreditation of Early Childhood Higher Education Programs             | 1401 H Street NW, Suite 600<br>Washington, DC 20005                                                    | (800)<br>424-2460                      |

| PROGRAM                       | AGENCY NAME                                                                                                                                                                                                                                                              | ADDRESS                                                                                                                                                                                     | PHONE                                                       |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| EMS                           | NEOEMS<br>(North Carolina Office of Emergency Medical Services)<br><br>CAAHEP<br>(Commission on Accreditation of Allied Health Education Programs)<br><br>CoAEMSP<br>(Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions) | 1201 Umstead Drive, Wright Bldg<br>Raleigh, NC 27603<br>9355 - 113th St. N, #7709<br>Seminole, FL 33775<br>8301 Lakeview Parkway<br>Suite 111-312<br>Rowlett, TX 75088                      | (919)<br>855-3935<br>(727)<br>210-2350<br>(214)<br>703.8445 |
| Health and Fitness Science    | Committee on Accreditation for Exercise Sciences (CoAES)<br>Commission on Accreditation for Allied Health Education Programs (CAAHEP)                                                                                                                                    | 9355 - 113th St. N, #7709<br>Seminole, FL 33775                                                                                                                                             | (727)<br>210-2350                                           |
| Social and Human Services     | Council for Standards in Human Service Education (CSHSE)                                                                                                                                                                                                                 | 3337 Duke Street<br>Alexandria, VA 22314                                                                                                                                                    | (571)<br>257-3959                                           |
| Medical Assisting             | Medical Assisting Education Review Board (MAERB)<br>Commission on Accreditation of Allied Health Education Programs(CAAHEP)                                                                                                                                              | 9355 - 113th St N #7709<br>Seminole, FL 33775-7709                                                                                                                                          | (727)<br>210-2350                                           |
| Medical Laboratory Technology | National Accrediting Agency of Clinical Laboratory (NAACLS)                                                                                                                                                                                                              | 5600 N. River Rd, Suite 720<br>Rosemont IL 60018-5119                                                                                                                                       | (773)<br>714-8880                                           |
| Medical Sonography            | Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS), and Commission on Accreditation of Allied Health Education Programs (CAAHEP)                                                                                                             | 9355 - 113th St. N, #7709<br>Seminole, FL 33775                                                                                                                                             | (727)<br>210-2350                                           |
| Nurse Aide                    | North Carolina Department of Health and Human Services                                                                                                                                                                                                                   | Division of Health Service Regulation<br>Health Care Personnel Education and Credentialing Section<br>801 Biggs Drive, Brown Building<br>2709 Mail Service Center<br>Raleigh, NC 27699-2709 | (919)<br>820-4566                                           |

| PROGRAM                        | AGENCY NAME                                                                                                                                         | ADDRESS                                                                                    | PHONE             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------|
| Occupational Therapy Assistant | Accreditation Council for Occupational Therapy Education (ACOTE) The American Occupational Therapy Association (AOTA)                               | 7501 Wisconsin Avenue, Suite 501E<br>Bethesda, MD 20814                                    | (301)<br>652-2682 |
| Pharmacy Technology            | American Society of Health-System Pharmacists (ASHP)                                                                                                | Accreditation Services Division<br>4500 East-West Highway, Suite 900<br>Bethesda, MD 20814 | (866)<br>279-0681 |
| Phlebotomy                     | National Accrediting Agency of Clinical Laboratory (NAACLS)                                                                                         | 5600 N. River Rd,<br>Suite 720<br>Rosemont IL 60018-5119                                   | (773)<br>714-8880 |
| Practical Nursing              | North Carolina Board of Nursing                                                                                                                     | 4516 Lake Boone Trail<br>Raleigh, NC 27607                                                 | (919)<br>782-3211 |
| Radiography                    | Joint Review Committee on Education in Radiologic Technology (JRCERT)                                                                               | 20 N. Wacker Drive,<br>Suite 2850<br>Chicago, IL 60606-3182                                | (312)<br>704-5300 |
| Surgical Technology            | Accreditation Review Council On Education In Surgical Technology And Surgical Assisting (ARC/STSA)                                                  | 19751 East Mainstreet, Suite #339<br>Parker, CO 80138                                      | (303)<br>694-9262 |
| Veterinary Medical Technology  | American Veterinary Medical Association (AVMA) Council on Education™ (COE) and Committee on Veterinary Technician Education and Activities™ (CVTEA) | 1931 North Meacham Road,<br>Suite 100<br>Schaumburg, IL 60173-4360                         | (800)<br>248-2862 |

Welcome!

## Note

The catalog and handbook are published for the purpose of providing information about the College and its programs. Announcements contained herein are subject to change without notice and may not be regarded in the nature of binding obligations on the College or the State. Efforts will be made to keep changes to a minimum, but changes in policy by the North Carolina State Legislature, the North Carolina Community College System, or by local conditions may make some alterations in curricula, fees, etc., necessary.



# EMPOWER TO ACHIEVE



Let's Get Started!

## Academic Advising

Cape Fear Community College views student advisement as an important, on-going process. Academic advising engages students in developing a plan to reach educational and career goals. Advisors assist students in selecting and scheduling appropriate classes to fulfill educational requirements.

All new students should schedule their **FIRST ADVISING MEETING** with an advisor from the Academic Advising Center or the Health Science Enrollment Center. From that point on, students should meet with their assigned advisor. Students in Career and Technical programs, as well as Health Science programs, are assigned a faculty advisor, an instructor from the student's program of study. Students in University Transfer and General Education programs, as well as non-degree-seeking students, are assigned an advisor from the Academic Advising Center. Students in pre-Health Science and other health-related programs are assigned an advisor from the Health Science Enrollment Center. The assigned advisor's name is posted in Self-Service Student Planning (accessed from the myCFCC portal) and can also be found in the student's Aviso dashboard.

Students should meet with their assigned advisor each semester for assistance in planning and scheduling classes. Students must accept the responsibility of familiarizing themselves with specific course prerequisites and corequisites and program requirements. While advising is an ongoing process, specific times are designated prior to each registration period for advising.



## Self-Service

Self-Service is a web-based portal that is accessed through the myCFCC portal (under Launchpad). Students may use Self-Service Student Planning to review their program progress. Students are encouraged to use the Student Planning feature in Self-Service to plan their entire program of study, register for classes, view class schedules, check grades, view unofficial transcripts, and more. Students may also check financial aid information and make payments in Self-Service.

## Academic Program of Study

A Program of Study is a specific or specialized academic field. Students seeking a degree, diploma, or certificate are enrolled in a program of study. All programs of study/curriculum programs can be found in our online catalog.

## Program Progress

Self-Service Student Planning is a tool for tracking program completion progress based on the student's catalog of record. Student Planning helps students, advisors, and counselors follow the progress toward completion of a degree, diploma, and/or certificate. Students can also use the system for "what if" scenarios when considering changing majors.

Let's Get Started!

## Academic Advising Center

The Academic Advising Center provides both academic advising and career development services including assistance with course selection and registration, transfer planning, career exploration and counseling, job search, and major changes. The center is located on the Wilmington Campus in the Union Station building, room U-240. An academic advisor is also available at the North Campus in the Student Services office suite located on the first floor of the McKeithan Center, room NA-100. Please refer to the [Academic Advising Center website](#) to schedule an appointment or for other helpful information. Students may choose an on-campus (preferred), virtual, or a phone appointment. Walk-ins are also welcome on a first-come, first-served basis.

All new students should schedule their **FIRST ADVISING MEETING** with an advisor from the Academic Advising Center (or the Health Science Enrollment Center for students in pre-Health Science or other health-related programs). During this **FIRST ADVISING MEETING**, advisors will teach new students how to use Self-Service Student Planning to register for classes. Students may use the center's computers for web registration. From that point on, students will meet with their assigned advisor (see Academic Advising above). Faculty advisor offices are not located in the Academic Advising Center. They are located in the program department office locations as listed in the Faculty and Staff Directory.

Students who wish to request a change of major should schedule an appointment with an advisor or career counselor in the Academic Advising Center (more information below).

Students enrolled in university transfer programs should meet with their advisor for help in constructing a transfer plan to a four-year college or university. During registration, this transfer plan will guide the student in selecting courses that will help meet admission and program requirements at the four-year school. To further support students with transfer planning, the center hosts visits from regional four-year college and university admission representatives throughout the academic year.

## Major Change: Changing Your Official Academic Program

Students who desire to change from one academic program (major) to another must see an advisor or career counselor in the Academic Advising Center to complete a Program Change Form. The advisor will evaluate program requirements and prerequisites and advise the student of any academic deficiencies. Prior to March 2018,

incoming college or university transcripts were evaluated for specific majors. Beginning in March 2018, CFCC began to transfer in all courses that meet our transfer criteria. If a transcript was evaluated prior to March 2018 and the student is requesting to change their major, they will need to request a transcript re-evaluation as part of the major change process. Students should complete this process prior to any registration period. Programs changed after the designated deadline date in a term (usually in the first week of the term) will not be effective until the next academic term. The advisor submits the completed form to the Registrar's Office for processing.

Let's Get Started!

## Accessibility Services

Student Accessibility Services (SAS) is committed to providing support to students with disabilities and works with all areas of the college to ensure that programs, facilities, and activities are accessible to all students. Services are provided in compliance with the Rehabilitation Act of 1973 and its attachments and the Americans with Disabilities Act as amended in 2008 (ADAAA).

Cape Fear Community College will be responsible for ensuring that students with disabilities have equal, effective and meaningful access to all programs, goods, and services through the use of nondiscriminatory policies and procedures and the provision of reasonable accommodations, auxiliary aids, and services as indicated necessary by the functional limitations of a qualified disability.

Students who have a disability (i.e. physical, mental, learning, vision, or hearing) are encouraged to contact SAS to arrange a confidential discussion. Individuals wishing to schedule an appointment with a SAS staff member can call 910-362-7017 or email [sas@cfcc.edu](mailto:sas@cfcc.edu) or review the SAS webpage <https://cfcc.edu/student-accessibility-services/>.

Let's Get Started!

## Admissions Process

Cape Fear Community College operates under an open door admission policy. This means the College is here to assist anyone who can benefit from a CFCC education. To enroll, students must either be a high school graduate (or equivalent) or at least 18 years of age. While CFCC advises all students seek a high school diploma or equivalent, admission to certain certificate programs may be granted without prior completion of a high school diploma or equivalency. In addition, admission to the college does not mean that students will be admitted immediately to a program with specified admissions requirements.

### General Admissions Process

#### First-Year Applicants:

Admission to CFCC requires the following:

- Admissions Application – the application can be accessed online on the [CFCC Admissions webpage](#).
- Residency Application – the residency application is available via the [Residency Determination Service](#). Residency determination establishes if a student pays in-state or out-of-state tuition. This is required for all students.
- Official secondary transcript or equivalency (accepted equivalencies include: GED®/HiSET/TASC)

Students are required to submit official high school transcripts with a graduation date or equivalent transcripts with a completion date. Home school students must submit a copy of the home school's approved registration from the state in which they are registered (if applicable) and a home school transcript with graduation date.

Public, private, and home school seniors may be provisionally admitted under one of the following conditions:

**-Condition 1:** Upon receipt of an official transcript indicating they are a current high school senior. Students admitted provisionally under this condition are required to submit final/official transcripts with a graduation date up until the last day of classes for the session in which the student wishes to enroll.

**OR**

**-Condition 2:** Upon receipt of an official letter signed and dated by the high school principal certifying that the student has completed all requirements necessary for high school graduation including an official high school graduation date. The letter must be submitted up until the last day to add a class in the session in which the student wishes to enroll. Students admitted provisionally under this condition are also required to submit final/official transcripts with a graduation date by the next term following initial enrollment or the student will not be allowed to register for classes during the next term.

Provisionally admitted students (*condition 1 and condition 2*) are not eligible for financial aid until a final/official high school transcript with a graduation date is received.

If you have earned an associate's degree or higher from a regionally accredited college or university, you may submit an official college transcript with a graduation date in place of an official high school transcript.

Students wishing to access veteran's benefits are required to submit official transcripts from all schools attended.

In addition to general admission requirements, some programs, including health sciences and Basic Law Enforcement Training, have additional admission requirements, including an approved official high school transcript with a graduation date.

#### **Foreign Transcripts:**

Foreign transcripts must be evaluated and translated (if applicable), by a current member of the National Association of Credential Evaluation Services ([naces.org](http://naces.org)) or a current member of the Association of International Credential Evaluators ([aice-eval.org](http://aice-eval.org)). Completed evaluations, along with copies of the original transcript(s), should be sent directly from the evaluation agency to CFCC Admissions. If the evaluation is sent directly to you, in order for it to be considered official, it must remain in the original sealed envelope. Once opened, it is no longer considered official.

#### **Transfer Applicants:**

If you have previously attended a college or university, please follow the general admissions process. While it's not required to submit official college transcripts for general admission, transcripts are required to earn transfer credit, potentially waive placement testing (if applicable), and receive veterans' benefits. Only courses with a grade of "C" or higher from an accredited college or university are transferable. College transcripts may be mailed to 411 North Front Street, Attn: Registrar's Office, Wilmington, NC 28401; or may be emailed to: [transcripts@cfcc.edu](mailto:transcripts@cfcc.edu); or may be sent electronically directly from the college through a secure transcript vendor service such as Parchment or National Student Clearinghouse. Questions regarding sending your transcript or in relation to transcript evaluation should be directed to the Registrar's Office.

As part of the enrollment process, you will be required to provide a valid Residency Certification Number from the State of North Carolina or complete a Residency Application with the Residency Determination Service (RDS) at [ncresidency.org](http://ncresidency.org). RDS determines if you will pay in-state or out-of-state tuition.

Students interested in health science programs are required to submit transcripts in advance of individual program deadlines. Visit the [CFCC Health Sciences Admissions webpage](#) for more information.

#### **Additional Information Regarding Transfer Credit:**

Credits are transferable from regionally accredited two and four-year institutions within the United States. Courses are transferred that compare in content, quality, and credit hours to those offered within the North Carolina Community College System.

Transcripts from institutions that are not regionally accredited are not evaluated by CFCC since the coursework is not generally accepted. A student may request to have the chairperson of the department under which the transfer coursework falls review the coursework to see if it may be accepted by CFCC. If the chairperson decides to award credit, he or she must notify the Registrar's Office in writing, who will then post the appropriate credit to the student's record. It is the student's responsibility to provide all of the documentation necessary to complete the evaluation, including course descriptions, syllabi, and any other materials requested by the department chair. Any final decision regarding the acceptance of credits from unaccredited institutions is subject to approval by the Vice President of Academic Affairs. For information about requesting an evaluation of credits from an institution without regional accreditation, the student should contact the Registrar's Office.

Transcripts of coursework completed at a college or university located outside of the United States must be accompanied by a certified English translation course evaluation and course descriptions. Transcripts must be evaluated and translated by a CFCC-approved agency. Qualifying agency evaluations include those approved by a NACES ([www.naces.org](http://www.naces.org)) or AICE ([www.aice-eval.org](http://www.aice-eval.org)) before CFCC will review transcripts for admission or transfer credit purposes. An official copy of the evaluation must be sent directly to CFCC or presented in a sealed/official envelope.

Credit for Military Experience - Veteran applicants who are using VA benefits must send official transcripts from any /all colleges they have attended previously and should request an Official military transcript be sent to the college so that they may receive college credits for military experience and training. Army, Navy, Marine Corps, and Coast Guard go to [Joint Services Transcript](#) and request that an official transcript be sent to CFCC. For the Air Force to [airforeuniveristy.af.edu](http://airforeuniveristy.af.edu) and request an official transcript. The college grants credit where applicable for military service schools in accordance with the recommendations of the American Council on Education's Guide To the Evaluation of Education Experiences in the Armed Services. Credit recommended must be consistent with the requirements and objectives of an academic program in order to be granted.

Students should be aware that the transferability of these credits is totally at the discretion of the receiving institution and that Cape Fear Community College makes no guarantee of such transfer.

Some courses that depend heavily on technology, speed and accuracy, physical skills, and/or language skills will be subject to review after five years unless the student has been continuously enrolled. Courses subject to review may include, but not limited to, computer, foreign languages, sciences, and trades courses. CFCC reserves the right to not award credit based on the discretion of the appropriate academic area.

Credits transferred from other institutions will be noted on the student's CFCC transcript. Grades achieved at other institutions will not display on a CFCC transcript and will not be used in the grade point average computation at CFCC.

Credit gained through advanced placement testing will require official transcripts from the testing agency.

Foreign language placement test scores from UNC system universities will be accepted. The Registrar's Office will determine if the submitted score report meets the pre-requisite. The student may then be cleared to register for the appropriate foreign language course level.

Experiential learning, proficiency testing from other institutions, and work based learning experience that was evaluated by another institution will not be transferred as coursework to CFCC.

Students who wish to receive transfer credit should submit official copies of all transcripts two weeks prior to registration so that evaluation of transfer credit can be completed. It is the student's responsibility to provide transcripts and to make the college aware of potential transfer credits. Students should not sign up for courses for which they could potentially be awarded transfer credit for. Students who choose to remain in courses that they may receive transfer credit for are subject to the college's stated refund policy if they decide to drop the course after courses begin. Faxed transcripts are not acceptable.

To receive a degree, diploma or certificate from CFCC, transfer students must complete at least 25 percent of program credits/requirements from CFCC.

#### **Re-Admission of Curriculum Students:**

Students (including CFCC graduates) returning to CFCC who have not been enrolled for one (1) or more academic years must submit a new admissions application. If you have had a period of non-enrollment, you may be required to complete the Residency Determination Service Application. This application determines if you will pay in-state or out-of-state tuition and is mandated by the State of North Carolina via the Residency Determination Service. For further information, please see the General Admissions Process.

#### **Admission as a Special Credit Student (Non-Degree Seeking):**

Students who do not wish to enter a degree, diploma, or certificate program may enter CFCC as "special credit" students. To be admitted as a Special Credit student, the student need only submit a completed college application, residency determination, and must be 18 years of age or older. Special credit students must meet course prerequisites. Admission as a special credit student does not constitute admission to any other curriculum program. Students who enter a curriculum program from special credit status must meet all standard admissions requirements prior to changing their program and prior to registration. Special Credit students are not eligible to receive financial aid or Veteran's benefits.

#### **Admission of Visiting Students:**

Visiting students are those who are admitted and enrolled at another college or university and wish to enroll at CFCC to supplement their coursework. Applicants should follow the general admissions process and select "visiting student or special credit" as the program of study/major on the admission application. Visiting students must meet and verify course prerequisites prior to registration.

#### **Provisional Admission:**

Provisional admission is granted prior to the last day to register. Students whose official high school transcripts have not been received by the Admissions Office at the time of registration may be admitted provisionally. Financial Aid will not be available to a student who is provisionally accepted until the final official transcript is received in the Admissions Office. All admissions requirements must be met within thirty (30) calendar days from the first day of the academic session. Those students who do not meet admissions requirements within thirty (30) calendar days may be dropped from courses. Students will not be allowed to register for upcoming semesters until all admission requirements are met.

#### **Admission of International Students:**

Cape Fear Community College does issue the necessary documents to obtain the F, (but not the J, or M) student visas (see section F-1 students below). Other visas may be acceptable for admission. Contact the Director of Admissions for further information.

#### **Undocumented Immigrants & Deferred Action Childhood Arrival (DACA) Students:**

Undocumented Immigrants

According to state board code 1D SBCCC 400.2 Admission to Colleges, community colleges shall admit an undocumented immigrant only if he or she attended and graduated from a US public high school, private high school, or home school that operates in compliance with State or local law or who attended and graduated from an Adult High School or earned a High School Equivalency Diploma. Undocumented immigrants will be charged the out-of-state tuition rate, can be prohibited from enrolling in programs that lead to professional licenses, and are required to register on the final day of registration.

#### DACA Students

Current North Carolina Community College System policy allows DACA applicants to enroll at CFCC at the out-of-state tuition cost. Acceptance to the college does not guarantee admission to certain programs.

#### **Pre-Registration Options:**

Prior to registering for classes, students should:

- Complete Orientation
- Determine Course Placement
  - Students who graduated from a US public, private, or home school will be placed based on their unweighted high school GPA.
  - Students who earned the GED from 2014-present will be placed based on their GED scores.
  - Students who graduated high school more than 10 years ago or who have an Adult High School Diploma without an eligible GPA, GED prior to 2014, HiSet, TASC, or Foreign High School Diploma have the option to take a placement test to improve their course placement. Placement testing is not required in order to be admitted to the college.

Information about other ways course placement can be improved besides placement testing can be found at [Course Placement and Placement Testing Options](#).

Students who are eligible to test and would like to take the placement test in order to improve course placement can visit the [Placement Testing Reservation Calendar webpage](#) to learn more about how to schedule the placement test.

There is no charge for the placement test. You may take the placement test twice (one initial test and one retest). In order to request accommodations based on a documented disability, requests for approval, assistance, and scheduling must be arranged through CFCC's Student Accessibility Services office (910-362-7017).

#### **Medical Examinations:**

A medical history and/or drug screening is required for certain programs, including Marine Technology and Health Sciences programs. Students are notified of this requirement as applicable to their programs of study. Contact Program Director or Department Chair for further information.

#### **Right to Deny Admission:**

The College reserves the right to refuse admission or readmission to any applicant during any period of time that the student is suspended or expelled from any other educational entity. 23 SBCCC 02C.0301 (d).

The College reserves the right to refuse admission to any applicant if it is necessary to protect the safety of the applicant or other individuals. 23 SBCCC 02C.0301 (e) and (f).

Applicants who are refused admission have the right to an appeal. To initiate such an appeal, the applicant must submit a written appeal to the Vice President for Student Services within five (5) calendar days after being notified of the refusal to admit. The Vice President for Student Services will present the appeal to the Judicial Board within

(5) calendar days of receipt of the written appeal. If the student wishes to appear before the Judicial Board, the request must be included in the written appeal. The Vice President for Student Services will notify the applicant of the Judicial Board's decision. The decision of the Judicial Board shall be final with no further appeals.

### **Contacting the Office of Admissions**

Mail official correspondence to:

Office of Admissions

Cape Fear Community College

411 North Front Street

Wilmington, NC 28401

Official Documentation Statement:

High school transcripts, equivalency score reports, ACT/SAT score reports, college transcripts, and other official documentation related to admission, must be received directly from the high school or organization by mail or electronically from an approved provider. Official electronic transcripts should be e-mailed to [transcripts@cfcc.edu](mailto:transcripts@cfcc.edu) (this must be from an approved agency or organization). If you have questions regarding your documents, please contact the Registrar or Admission Office.

## **International Student Admissions Policy (F-1 Students)**

### **Application Steps for International Students**

1. Online International Admissions Application
2. Proof of Financial Support
  - a. Evidence should prove your ability to cover CFCC's out-of-state cost of attendance for at least one year of tuition, fees, and living expenses, plus required funds for dependents. Evidence must be in the form of a bank statement signed by a bank official or a letter on official bank letterhead signed by a bank official. Documentation must be in English and converted to U.S. dollars. Documents must be in the account holder's name.
  - b. If you are being sponsored to cover financial costs, your sponsor must submit an Affidavit of Support.
3. Submit International Student Medical Form
4. Copy of Passport Biographical Page
5. \*Submit English Language Requirements (must meet one of the following)
  - a. A minimum total score of 71 on the TOEFL iBT Test
  - b. A minimum total score of 8 on TOEFL Essentials
  - c. A minimum overall band score of 6.0 on the IELTS
  - d. A minimum score of 95 on the Duolingo English Test (DET)
  - e. A minimum score of 54 on the Pearson PTE
  - f. A minimum score of 3.7 on the iTEP
  - g. Meeting benchmarks using college-approved placement tests
  - h. Successful completion of a college-level English composition course at a US college or university with a C or higher

\* Students who have obtained their secondary school diploma and/or bachelor's degree from a country on the English Language Requirement Exemptions list are exempt from this requirement.

\* Official score reports must be submitted from the testing agency directly to CFCC.

6. Submit Official Educational Documents



a. Foreign transcripts must be evaluated and translated (if applicable), by a current member of the National Association of Credential Evaluation Services ([naces.org](https://naces.org)) or a current member of the Association of International Credential Evaluators ([aice-eval.org](https://aice-eval.org)). Completed evaluations, along with copies of the original documents, should be sent directly from the evaluation agency to CFCC Admissions.

7. Pay Non-Refundable \$50.00 International Student Application Fee

### Transfer Applicants (transfer active I-20)

In addition to the admission steps listed above, transfer applicants must also provide a copy of all previous I-20s, latest I-94, latest passport entry stamp, entry visa, I-797 approval notice, if applicable, and employment authorization card, if applicable.

Application Deadlines:

| Applicant              | Fall Semester | Spring Semester | Summer Semester |
|------------------------|---------------|-----------------|-----------------|
| Applying Outside of US | April 15      | October 20      | February 15     |
| Transfer Active I-20   | July 15       | December 1      | April 15        |

Admitted applicants will receive an official acceptance letter and Certificate of Eligibility for Nonimmigrant Student Status (Form I-20) from Cape Fear Community College.

*CFCC Board of Trustees approved September 25, 2025*

Let's Get Started!

## Bookstore

There are two CFCC bookstores. The Wilmington Campus store is located on the ground floor of the Health Sciences (L) building. The North Campus store is located in room NA114 in the McKeithan Center. The bookstores provide textbooks, supplies and other collegiate materials. Hours of operation and policies governing textbook refunds and buybacks are posted in the bookstores.

Let's Get Started!

## Campus Visits

Cape Fear Community College encourages prospective students to visit the campus and tour our facilities. Guided tours may be scheduled Monday through Friday when classes are in session. Appointments are necessary to ensure that appropriate staff will be available to answer questions. Information pertaining to academic programs, student services, and the admissions/registration processes will be presented during the tour. Tour dates and times are available on the [CFCC Campus Tour webpage](#).

Let's Get Started!

## Career and College Promise (Dual Enrollment/Early College)

The Career and College Promise Program allows qualifying high school students the opportunity to enroll in college classes in order to earn both high school and college credit upon successful completion of CFCC courses. This program offers the following pathways:

- Career and Technical Education Pathway
- College Transfer Pathway
- Economic & Workforce Development (EWD) Pathways (school by school basis)
- Cooperative Innovative High School Pathway (or Early College High School)

The Career and Technical Education Pathway allows high school juniors and seniors the opportunity to enroll in a CFCC CTE Pathway that aligns with their high school career cluster programs. To be accepted into this program, students must meet the following criteria\*:

- Be a high school junior or senior; and
- Have an unweighted, cumulative GPA of 2.8 or higher on high school courses, or
- Demonstrate college readiness in English, reading and mathematics on an assessment, or
- Have the recommendation of the high school principal or his/her designee and his/her rationale for recommendation in place of GPA requirement (assessment scores should be considered) and have the recommendation of the college's Chief Academic Officer or Chief Student Development Administrator (*A recommendation for eligibility will not be permitted for CTE pathways that include UGETC (Universal General Education Transfer Component) course(s)*)

The College Transfer Pathway allows high school juniors and seniors the opportunity to complete core general education classes required during the first two years of a four-year degree. To be accepted to this program, students must meet the following criteria:

- Be a high school junior or senior; and
- Have unweighted, cumulative GPA of 2.8 on high school courses, or
- Demonstrate college readiness on an approved assessment or placement test

\*\*Students interested in the Engineering pathway must also prove Calculus 1 eligibility in order to be admitted to that program of study.

The Cooperative Innovative High School Pathway (or Early College High School) allows students the opportunity to earn a high school diploma and up to two years of college credit within five years. CFCC partners with New Hanover County Schools and Pender County Schools to host three early college high schools. Pender Early College High School (PECHS), Wilmington Early College High School (WECHS), and Southeast Area Technical High School (SEA-TECH) are connected to CFCC. Students must have the desire to attend a smaller school with high expectations for academics and behavior. Admission to the program is granted by each respective school system.

The Economic and Workforce Development (EWD) Pathway allows high school juniors and seniors the opportunity to enroll in a CFCC Workforce Career Training Pathway to start training for a career while in high school. To be accepted into this program, students must meet the following criteria\*:

- Be a high school junior or senior
- Have a weighted GPA of 2.8 on high school courses or your principal's approval
- If GPA is lower than 2.8, assessment testing is required
- For details on eligibility and admissions requirements, please speak to your high school career counselor

\*If you are a Home School or Private School Student interested in an EWD pathway, please contact a Workforce Development Coordinator at (910) 362-7370 to determine eligibility.

For more information on college courses available to qualifying high school students, visit our [Career and College Promise/Dual Enrollment webpage](#).

## Catalog of Record

Students are expected to meet the catalog requirements in effect at the time of their enrollment into a curriculum program. Anyone not in continuous enrollment for more than one semester (not counting summer) will be readmitted under the requirements of the current catalog. A student who changes programs must meet the requirements of the catalog in effect at the time of the change of program.

Most courses can be counted for credit toward graduation for an indefinite period of time. Some courses that depend heavily on technology, speed and accuracy, physical skills, and language skills will be subject to review after five years unless the student has been continuously enrolled. Courses subject to review may include, but not limited to computer, foreign languages, health science, developmental, and trades courses.

[Let's Get Started!](#)

## Credit for Prior Learning Experiences

In some circumstances, students may be eligible to receive academic credit for non-credit learning experiences. Examples of non-credit learning experiences include Continuing Education classes and programs, military education and training, industry-recognized certifications, and certain apprenticeship programs. A student may only petition for the conversion of non-credit learning experiences to academic credit for courses in the student's declared curriculum program of study. No more than 75% of a student's curriculum program credits will be awarded through the conversion of non-credit learning experiences. In addition, credit for prior learning for coursework completed at the college (ie. CE to CU) cannot be used to satisfy the 25% institutional credits needed for program completion. CFCC reserves the right to require documentation supporting the equivalent quality of the learning outcomes, instructional content, and instructor qualifications of any non-credit learning experiences for which a student petitions conversion to academic credit. CFCC will also require documentation that a student satisfactorily completed within the last five years any non-credit learning experiences for which the student petitions credit conversion. CFCC's Chief Academic Officer must approve each student petition for credit conversion. Students who feel they may be eligible for the conversion of non-credit learning experiences to academic credit should contact their academic program's director or Student Services staff for additional information. **Credit earned through CPL experience may not be transferable to UNC constituent institutions or to other colleges/universities inside or outside of NC. Students should always consult with institutions they may transfer to in the future, regarding how CPL credits may or may not transfer to the institution.**

[Let's Get Started!](#)

## Credit by Proficiency Examination

For selected courses, students may request credit by proficiency examination for previous experience or training. The student must be currently enrolled at CFCC and **must not have enrolled in the course prior to taking the proficiency exam**. The student must request the Credit by Proficiency Application from the Registrar and have it approved by the department chair in order to challenge the course. Students may challenge a course only once. Students successfully passing a proficiency exam will receive credit for the course as a "CR" (credit for record). Credit by Proficiency does not usually transfer. CLEP and AP exams (see below) may be used in lieu of proficiency exams.

## CLEP - College Level Examination Program®

The College-Level Examination Program® or CLEP provides students of any age with the opportunity to demonstrate college-level achievement through a program of exams in undergraduate college courses.

CFCC may grant credit in appropriate courses on the basis of CLEP examination results. The following guide describes the cutoff scores and credits that may be earned through the CLEP. *Credit may be awarded for other CLEP tests not listed.* Students should submit official CLEP scores to the Registrar's Office prior to registration for possible credit and proper course placement.

| EXAMINATION                                  | MIN SCORE | CFCC COURSE        | CREDIT HOURS |
|----------------------------------------------|-----------|--------------------|--------------|
| Financial Accounting                         | 50        | ACC 120            | 4            |
| Biology                                      | 50        | BIO 110            | 4            |
| Chemistry                                    | 50        | CHM 151 & CHM 151A | 4            |
| Information Systems                          | 50        | CIS 110            | 3            |
| Introductory Business Law                    | 50        | BUS 115            | 3            |
| Principles of Microeconomics                 | 50        | ECO 251            | 3            |
| Principles of Macroeconomics                 | 50        | ECO 252            | 3            |
| College Composition                          | 50        | ENG 111 & ENG 112  | 6            |
| College Composition Modular                  | 50        | ENG 111            | 3            |
| Analyzing & Interpreting Literature          | 50        | ENG 131            | 3            |
| English Literature                           | 50        | ENG 241            | 3            |
| American Literature                          | 50        | ENG 231            | 3            |
| Western Civilization I                       | 50        | HIS 121            | 3            |
| Western Civilization II                      | 50        | HIS 122            | 3            |
| History of U.S. I Early Colonization to 1877 | 50        | HIS 131            | 3            |
| History of U.S. II 1865 - Present            | 50        | HIS 132            | 3            |
| Humanities                                   | 50        | HUM 211            | 3            |
| College Algebra                              | 50        | MAT 171            | 4            |
| Calculus                                     | 50        | MAT 271            | 4            |
| Precalculus                                  | 50        | MAT 171 & MAT 172  | 8            |
| Principles of Marketing                      | 50        | MKT 120            | 3            |
| American Government                          | 50        | POL 120            | 3            |
| Introduction Psychology                      | 50        | PSY 150            | 3            |
| Human Growth and Development                 | 50        | PSY 241            | 3            |
| Introduction to Educational Psychology       | 50        | PSY 263            | 3            |
| Introductory Sociology                       | 50        | SOC 210            | 3            |
| French Language                              | 50        | FRE 111 & FRE 112  | 6            |
|                                              | 59        | FRE 211            | *9           |
| German Language                              | 50        | GER 111 & GER 112  | 6            |
|                                              | 60        | GER 211            | *9           |
| Spanish Language                             | 50        | SPA 111 & SPA 112  | 6            |
|                                              | 63        | SPA 211            | *9           |

\*Students achieving the cutoff score for 211 are also given credit for 111 and 112.

## **Advanced Placement - AP®**

CFCC may grant credit in appropriate courses on the basis of AP® examination results. The following guide describes the cutoff scores and credits that may be earned through AP®. Credit may be awarded for other AP tests not listed. Students should submit official AP® scores prior to registration for possible credit and proper course placement.

| EXAMINATION           | SCORE | CFCC COURSE                   | CREDIT HOURS |
|-----------------------|-------|-------------------------------|--------------|
| Art History           | 3     | ART 114                       | 3            |
| Art 2D Design         | 3     | ART 121                       | 3            |
| Art 3D Design         | 3     | ART 122                       | 3            |
| Biology               | 3     | BIO 111 & BIO 112             | 8            |
| Chemistry             | 3     | CHM 151 & CHM 152             | 8            |
| Computer Science A    | 3     | CIS 115                       | 3            |
| Microeconomics        | 3     | ECO 251                       | 3            |
| Macroeconomics        | 3     | ECO 252                       | 3            |
| English Lang & Comp   | 3     | ENG 111 & ENG 112             | 6            |
| Eng Lit & Comp        | 3     | ENG 111 & 113                 | 6            |
| Environmental Science | 3     | ENV 110<br>BIO-140 & BIO-140A | 3            |
| French Language       | 3     | FRE 111 & FRE 112             | 6            |
| French Language       | 4     | FRE 111 & FRE 112             |              |
|                       |       | FRE 211 & FRE 212             | 12           |
| German Language       | 3     | GER 111 & GER 112             | 6            |
| German Language       | 4     | GER 111 & GER 112             |              |
|                       |       | GER 211 & GER 212             | 12           |
| Human Geography       | 3     | GEO 112                       | 3            |
| World History         | 3     | HIS 111 & HIS 112             | 6            |
| European History      | 3     | HIS 121 & HIS 122             | 6            |
| US History            | 3     | HIS 131 & HIS 132             | 6            |
| Latin                 | 3     | LAT 111 & 112                 | 6            |
| Statistics            | 3     | MAT 152                       | 4            |
| Calculus AB           | 3     | MAT 271                       | 4            |
| Calculus BC           | 3     | MAT 271 & MAT 272             | 8            |
| Music Theory          | 3     | MUS 121                       | 4            |
| Physics I             | 4     | PHY 151                       | 4            |
| Physics C-Mechanics   | 3     | PHY 131                       | 4            |
| Physics C-Elec/Mag    | 3     | PHY 132                       | 4            |
| Physics 2             | 3     | PHY 152                       | 4            |
| US Gov/Politics       | 3     | POL 120                       | 3            |
| Comp.Gov/Politics     | 3     | POL 210                       | 3            |
| Psychology 3          | 3     | PSY 150                       | 3            |
| Spanish Language      | 3     | SPA 111 & SPA 112             | 6            |
| Spanish Language      | 4     | SPA 111 & SPA 112             |              |
|                       |       | SPA 211 & SPA 212             | 12           |

## IB (International Baccalaureate)

Students may receive credit by examination for achieving acceptable scores on the High Level (HL IB) International Baccalaureate examinations. Official test scores should be sent to the registrar's office for evaluation prior to registration for possible credit and proper course placement. CFCC only accepts certain exams of the "High Level." (HL)

| EXAMINATION                 | SCORE | CFCC COURSE       | CREDIT HOURS |
|-----------------------------|-------|-------------------|--------------|
| Biology - HL                | 5     | BIO 111 & BIO 112 | 8            |
| Chemistry - HL              | 5     | CHM 151           | 4            |
| Economics - HL              | 5     | ECO 151           | 3            |
| Economics - HL              | 6     | ECO 251 & ECO 252 | 6            |
| History - HL                | 5     | HIS 131           | 3            |
| Language A: Lang/Lit - HL   | 5     | ENG 111           | 3            |
| Language A: Literature - HL | 5     | ENG 131           | 3            |
| Language B - HL             | 5     | SPA 111 & SPA 112 |              |
|                             |       | SPA 211 & SPA 212 | 12           |
| Physics - HL                | 5     | PHY 151           | 4            |
| Psychology - HL             | 5     | PSY 150           | 3            |
| Visual Arts - HL            | 5     | ART 215           | 3            |

## DSST (DANTES Subject Standardized Tests)

Students may receive credit by examination for achieving acceptable scores on the DSST (DANTES Subject Standardized Tests). Students should submit official DSST scores prior to registration for possible credit and proper course placement.

| EXAMINATION                     | SCORE | CFCC COURSE | CREDIT HOURS |
|---------------------------------|-------|-------------|--------------|
| Business Mathematics            | 400   | BUS 121     | 3            |
| Computing & Info. Technology    | 400   | CIS 110     | 2            |
| Ethics in America               | 400   | PHI 240     | 3            |
| Fundamentals of College Algebra | 400   | MAT 171     | 4            |
| Health & Human Development      | 400   | HEA 110     | 3            |
| Human Resource Management       | 400   | BUS 153     | 3            |
| Introduction to Business        | 400   | BUS 110     | 3            |
| Lifespan Development Psychology | 400   | PSY 241     | 3            |
| Principles of Public Speaking   | 400   | COM 231     | 3            |
| Principles of Statistics        | 400   | MAT 152     | 4            |
| Principles of Supervision       | 400   | BUS 135     | 3            |
| Substance Abuse                 | 400   | SOC 245     | 3            |
| The Civil War & Reconstruction  | 400   | HIS 226     | 3            |



## **Cambridge International Exams**

Students may receive credit by examination for achieving acceptable scores on the Cambridge International Examination (CIE) Level AS & A exams. Official exam grades should be sent to the registrar's office for evaluation prior to registration for possible credit and proper course placement. A minimum grade of E (or e) is required on most exams to receive credit, however, some exams require a minimum grade of B.

| EXAMINATION/LEVEL                       | GRADE    | CFCC COURSE         | CREDIT HOURS |
|-----------------------------------------|----------|---------------------|--------------|
| Accounting (A Level)-9706               | E (or e) | ACC 120 & ACC 121   | 8            |
| Accounting (AS Level)-9706              | E (or e) | ACC 120             | 4            |
| Art & Design (A Level)-9479             | E (or e) | ART 121 & ART 122   | 6            |
| Art & Design (AS Level)-9479            | E (or e) | ART 114             | 3            |
| Biology (A Level)-9700                  | E (or e) | BIO 111 & BIO 112   | 8            |
| Biology (AS Level)-9700                 | E (or e) | BIO 111             | 4            |
| Chemistry (A Level)-9701                | E (or e) | CHM 151 & CHM 152   | 8            |
| Chemistry (AS Level)-9701               | E (or e) | CHM 151             | 4            |
| Computer Science (A Level)-9618         | E (or e) | CIS 115             | 3            |
| Computer Science (AS Level)-9618        | E (or e) | CIS 115             | 3            |
| Economics (A Level)- 9708               | E (or e) | ECO 251 & ECO 252   | 6            |
| Economics (AS Level)-9708               | E (or e) | ECO 251             | 3            |
| English General Paper (AS Level)-8021   | E (or e) | ENG 111             | 3            |
| English Language (A Level)-9093         | E (or e) | ENG 111 & ENG 112   | 6            |
| English Language (AS Level)-9093        | E (or e) | ENG 111             | 3            |
| English Lang. & Lit. (AS Level)-8695    | E (or e) | ENG 131             | 3            |
| English Literature (A Level)-9695       | E (or e) | ENG 231 & ENG 232   | 6            |
| English Literature (AS Level)-9695      | E (or e) | ENG 113             | 3            |
| Environmental Mgmt. (AS Level)-8291     | E (or e) | BIO 140 & BIO 140 A | 4            |
| French (A Level)-9716                   | E (or e) | FRE 111 & FRE 112   | 6            |
| French (A Level)-9716                   | B        | FRE 111 & FRE 112   |              |
|                                         |          | FRE 211 & FRE 212   | 12           |
| French Language (AS Level)-8028         | E (or e) | FRE 111 & FRE 112   | 6            |
| French - Language (AS Level)-8682       | E (or e) | FRE 111 & FRE 112   | 6            |
| German (A Level)-9717                   | E (or e) | GER 111 & GER 112   | 6            |
| German (A Level)-9717                   | B        | GER 111 & GER 112   |              |
|                                         |          | GER 211 & GER 212   | 12           |
| German - Language (AS Level)-8027       | E (or e) | GER 111 & GER 112   | 6            |
| German - Language (AS Level)-8683       | E (or e) | GER 111 & GER 112   | 6            |
| History (A Level)-9489                  | E (or e) | HIS 121 & HIS 122   | 6            |
| History (AS Level)-9489                 | E (or e) | HIS 121 & HIS 122   | 6            |
| Information Technology (A Level)-9626   | E (or e) | CIS 110             | 3            |
| Information Technology (AS Level)-9626  | E (or e) | CIS 110             | 3            |
| International History (A Level)-9982    | E (or e) | HIS 111 & HIS 112   | 6            |
| International History (AS Level) - 9982 | E (or e) | HIS 111 & HIS 112   | 6            |
| Mathematics (A Level)-9709              | E (or e) | MAT 171 & MAT 172   | 8            |
| Mathematics (AS Level) - 9709           | E (or e) | MAT 171             | 4            |

| EXAMINATION/LEVEL                     | GRADE    | CFCC COURSE       | CREDIT HOURS |
|---------------------------------------|----------|-------------------|--------------|
| Physics (A Level)-9702                | B        | PHY 151 & PHY 152 | 8            |
| Physics (AS Level)-9702               | B        | PHY 151 & PHY 152 | 8            |
| Spanish Language (AS Level)-8022      | E (or e) | SPA 111 & SPA 112 | 6            |
| Spanish Language (AS Level)-8022      | B        | SPA 111 & SPA 112 |              |
|                                       |          | SPA 211 & SPA 212 | 12           |
| US History to 1877 (A Level)-8101     | E (or e) | HIS 131           | 3            |
| US History to 1877 (AS Level)-8101    | E (or e) | HIS 131           | 3            |
| US History since 1877 (A Level)-8102  | E (or e) | HIS 132           | 3            |
| US History since 1877 (AS Level)-8102 | E (or e) | HIS 132           | 3            |

Note: Course credit awarded by CFCC on the basis of CLEP, AP, IB, DSST, or Cambridge International exam scores may not transfer to other institutions.

Let's Get Started!

## Financial Aid

Cape Fear Community College administers Federal, State and institutional aid programs designed to assist students and their families in meeting the cost of obtaining a college education. These aid programs are intended to supplement available family resources, considered to be the primary source of educational funding.

### Financial Aid Self-Service

Financial Aid self-service is a personalized, automated, online checklist that keeps everyone on track and up to speed from submission to completion of the student's Financial Aid package. Self-Service can be accessed via a mobile device. This feature allows Cape Fear Community College students to access their financial aid information in one location.

1. Log into mycfcc. 2. Select Self-Service, and 3. Then select Financial Aid.

Students can view:

- To verify if the FAFSA application has been received.
- An interactive checklist of things needed for the completion of their application.
- Their award(s) details.
- Their Satisfactory Academic Progress (SAP). This means the student can track their SAP status to make sure they are making the cumulative 67% completion and 2.0 GPA necessary to be eligible for aid.
- Loan history - so students can keep track of the total amount borrowed.
- Lifetime Pell eligibility - which maximizes out at 600%.
- Student Finance Account Summary.

### Available Aid Programs

#### Federal Pell Grant

The foundation of federal student financial aid, Pell Grants are awarded only to undergraduate students (those who have not earned a bachelor's or graduate degree) who demonstrate financial need.

## **Federal Supplemental Educational Opportunity Grant (FSEOG)**

Supplemental Grants are awarded to undergraduate students. Federal Pell Grant recipients receive priority for FSEOG awards.

## **Federal Work Study (FWS)**

Work-study awards provide part-time employment opportunities for eligible students to earn money to meet college expenses.

## **Federal Direct Stafford Loan**

The U.S. Department of Education provides the funding for student loans which are borrowed money that must be repaid with interest. Student must be enrolled in at least six credits each semester to be eligible. Returning student must have earned 30 credit hours to be eligible to borrow a second-year loan.

## **Federal Direct PLUS Loan**

PLUS loans are available to eligible parents of dependent students who are enrolled in at least six credits each semester. Parent loans are borrowed money that must be repaid with interest.

## **North Carolina Grant**

The program combines the federal Pell Grant with the state-funded financial aid program to create a streamlined scholarship award. Qualifying students will receive at least \$3,000. The scholarship award can also be used for books, food, and housing.

Qualifying students for the Next NC Scholarship must meet the following requirements:

1. A North Carolina resident who is eligible for in-state tuition
2. A high school graduate (high school equivalency completers are eligible)
3. From a household with an annual Adjusted Gross Income (AGI) of \$80,000 or less
4. Enrolled in an eligible undergraduate curriculum program for the 2024-2025 academic year
5. Taking at least 6 credit hours per semester (part-time students will receive a partial award)
6. Meeting the Satisfactory Academic Progress standards at CFCC
7. A student who has completed the 2024-225 FAFSA, with a resulting Student Aid Index (SAI) at or below 7,500 (once complete, the financial aid office at the college/university you plan to attend will determine and confirm eligibility)

## **Institutional Scholarships**

Scholarships are awarded on the basis of financial need, academic excellence, special talent, or any combination thereof. A separate application is required.

## **Applying for Financial Aid**

Apply for FSA ID. It will allow a student to apply online for federal and state financial aid and “sign” the application electronically-no paper is involved. Go to the [Federal Student Aid website](#) anytime to request your FSA ID.

### **Complete the Free Application for Federal Student Aid (FAFSA).**

Go to the [Federal Student Aid website](#) to apply for financial aid. A “FAFSA on the Web” worksheet is available online to assist in completing the application.

## **Financial Need and Student Aid Index(SAI)**

Most federal and state financial aid is awarded based on need. An SAI number is used to determine financial need:

Cost of Attendance - SAI = Financial Need

The SAI is a measure of a family's financial strength and indicates how much of the family's resources should be available to help pay educational costs. The SAI is calculated from the information provided on the FAFSA according to a formula established by law.

## **Verification**

Copies of federal tax transcripts and other documents may be required of financial aid applicants to verify the accuracy of the information submitted on the FAFSA. CFCC will notify applicants of documents required to complete the process upon receipt of FAFSA data.

## **Notification of Awards**

Students will receive a notice announcing that the financial aid award has been processed.

Students who are awarded Financial Aid and register for classes, but do not attend at least once by the 10 percent date of the class will be dropped by the instructor as "never attended." Financial aid awards will be adjusted accordingly.

Students who do not qualify for federal or state grant programs will be notified of their non-eligible status.

## **Eligibility After Graduation**

Upon graduation, a student's Program of Study will end and they will no longer be eligible to receive financial aid and veteran's benefits until a new program is declared. Therefore, students must contact the Financial Aid, Veteran and Advising offices if they plan to continue enrollment in another program beyond graduation.

## **Programs Not Eligible for Financial Aid at Cape Fear Community College**

Students enrolling in the following programs cannot receive financial aid because the programs do not meet the U.S. Department of Education eligibility requirements.

- Air Conditioning, Heating & Refrigeration Technology (certificate)
- Accounting Analytics (certificate)
- Accounting and Finance (certificate)
- Accounting and Finance (diploma)
- Accounting Fraud Analytics (certificate)
- Advertising and Graphic Design (certificate)
- Architectural Technology (certificate)
- Automotive Customizing Technology (certificate)
- Boat Building (Wooden) (certificate)
- Business Analytics (certificate)
- Business Technology -Entrepreneurship (diploma)
- Carpentry (certificate)
- Chemical Technology (diploma)
- Collision Repair & Refinishing Technology (certificate)
- Construction Management Technology (certificate)
  - Project Management (certificate)
  - Framing (certificate)
- Criminal Justice Technology (certificate)
- Criminal Justice Industrial Security (certificate)
- Cyber Crime (certificate)
- Diesel Power Generation Technology (diploma)
- Early Childhood Education-Preschool (certificate)

- Early Childhood Infant/Toddler Care (certificate)
- Early Childhood Preschool (certificate)
- Electrical Systems Technology (certificate)
- Electronics Engineering Technology (certificate)
  - Drone Systems (certificate)
  - LAN Cabling Technology (certificate)
- Emergency Management (certificate)
  - Administration (certificate)
- Healthcare Business Informatics (diploma)
  - Healthcare Business Informatics (certificate)
- Information Technology Systems Administration (certificate)
- Information Technology Web Designer (certificate)
- Landscape Design (certificate)
- Landscape Gardening (certificate)
- Landscape Gardening Horticulture Production (certificate)
- Retention Pond Management (certificate)
- Sustainable Gardening (certificate)
- Mechanical Engineering Technology (certificate)
- Mechanical Engineering CAD Drafting (certificate)
- Mechanical Engineering 3D Printing (certificate)
- Mechatronics Engineering Technology Automation (certificate)
- Paralegal Technology, Elder Law (certificate)
- Plumbing (certificate)
- Public Safety Administration (certificate)
- Special Credit (major)
- Sustainability Technologies:
  - Sustainability Technology (certificate)
  - Sustainability Renewable Energy Technology (certificate)
  - Sustainable Building Performance (certificate)
- Welding Technology SMAW/GTAW (certificate)
- Welding Technology GTAW/GMAW (certificate)

NOTE: Associate in General Education (AGE) Program – No financial assistance is available for free elective courses taken from curriculum programs that are ineligible for financial aid unless the courses are required for completion of the diploma and/or degree programs in the same discipline.

## Ineligible Coursework

Title IV aid (Federal Pell Grants and Direct Student Loans) may only be used towards coursework that fulfill the requirements of the current Program of Study. Title IV aid will be adjusted to exclude payment for coursework not required for the current program of study. Students will be responsible for the tuition and fees for those courses that are not covered by Title IV aid. To avoid unexpected charges, students should run a Program Evaluation through Self Service Student Planning after registering for classes to ensure the courses for which they've registered count towards completion of their Program of Study.

## **Satisfactory Academic Progress for Financial Aid Recipients**

Federal and state regulations require that students receiving financial aid maintain satisfactory academic progress (SAP) to be eligible to continue to receive funding. This policy applies to all students receiving assistance from any financial aid program administered by the Financial Aid Office at CFCC.

### **Qualitative and Quantitative Standards**

Financial aid recipients must meet both a “qualitative” and a “quantitative” standard to maintain eligibility for financial aid. Students must maintain a cumulative 2.0 grade point average (GPA) to meet the qualitative standard. Students must also successfully complete 67 percent of all credits in which they enroll to meet the quantitative standard.

Developmental Education courses (designated by course numbers below “100”) are included in the calculation of a student’s enrollment status. However, no more than 30 Developmental Education course hours can be used to determine a student’s enrollment status for financial aid purposes. “Foundation” courses in math and English are NOT eligible for financial aid funding or inclusion in the determination of enrollment status because their content is below the post-secondary level.

Transfer credits from institutions other than CFCC will be totaled and counted in the determination of completion rate and maximum time frame.

Grades of “W”, “WP”, “WF”, “NC”, “NS”, “I”, “R”, “U”, “XF” and “F” do not count as successfully completed courses but do count as credits attempted and are used in the determination of enrollment status and maximum time frame. Audited courses are not eligible for financial aid funding and are not included in the determination of a student’s enrollment status for financial aid purposes.

A student is permitted to repeat a previously passed course one additional time for the repeated course to be eligible for financial aid. A student can repeat a previously-failed course an unlimited number of times. All earned grades will be used to determine a student’s compliance with the 2.0 cumulative GPA requirement and all attempted hours will be included in the calculation of maximum time frame.

### **Timing of Measurement**

Satisfactory academic progress is measured after every semester. All terms of enrollment at CFCC are included in the measurement, even if the student did NOT receive financial aid. Summer and mini-sessions are also included.

### **Failure to Achieve Satisfactory Academic Progress**

Students who fail to meet either of the progression standards will receive a warning notice. The preferred method of notification is electronic; messages are sent to the student’s CFCC e-mail account. Students on warning are eligible to receive one additional semester of financial aid and are expected to use this period to reestablish satisfactory academic progress.

If a student fails to meet either standard for a second consecutive semester, s/he will receive a suspension notice. No financial aid will be awarded to a student on suspension until the student corrects the academic progress deficiencies. Students who do not meet the satisfactory academic progress requirements for financial aid eligibility can enroll at CFCC without financial aid to correct the deficiencies.

### **Appeal Process for Probationary Semester**

The right to appeal is granted to any student whose financial aid eligibility has been suspended. An appeal must be based on significant mitigating circumstances that seriously impacted academic performance.



The student should submit a written appeal to the Financial Aid Office. An appeal letter must include why the student failed to make satisfactory academic progress and what has changed that will allow the student to make progress at the next evaluation (i. e., at the end of the next semester of enrollment).

An appeal letter must be accompanied by:

- A typed academic plan clearly stating how the student intends to meet progress standards, and
- A copy of the student's degree progress, which is available on the student's Self Service Student Planning account. The degree progress displays completed courses and courses still required for program completion.
- Students are strongly advised to submit third party documentation supporting significant mitigating circumstances. For example, in case of significant medical issues, documentation may require medical reports and signed statements by physicians regarding the circumstances.

An appeal submitted without adequate documentation will be denied.

The appeal letter and supporting documentation submitted by the student will be forwarded to the Financial Aid Committee.

Please note that merely filing an appeal does NOT guarantee continued eligibility for financial aid.

The Financial Aid Appeals Committee will review the appeal within 15 weekdays. Students will be notified of the Committee's decision. The preferred method of notification is electronic; the decision notice is sent to the student's CFCC e-mail account. The decision of the Financial Aid Appeals Committee is final and no further appeals are allowed.

If the appeal is denied, the student may reestablish financial aid eligibility for subsequent semesters ONLY by taking courses, without benefit of financial aid, until s/he is in compliance with all components of the CFCC satisfactory academic progress policy (67% completion rate and 2.0 minimum cumulative GPA).

If the appeal is approved, the student regains financial aid eligibility for one probationary semester. During the probationary semester and all subsequent semesters, the student must achieve a 75% completion rate and maintain a term GPA of 2.0. Failure to do so will result in suspension of financial aid after which the student will regain eligibility ONLY by taking a minimum of six (6) credits, without benefit of financial aid, until s/he is in compliance with all components of the CFCC satisfactory academic progress policy (75% completion rate and 2.0 minimum cumulative GPA). The classes in which a student registers to regain eligibility must be required for program completion. Previously-passed courses which the student retakes will not be included in the determination of Continued on Appeal status.

## **Maximum Time Frame**

To be eligible for financial aid at CFCC, you must complete your degree within the maximum timeframe. This means graduating before accumulating 150% of the attempted credits required for completing your major. Attempted credits include all courses taken at the institution, regardless of whether or not you passed the class. Progression will be monitored using the students' current Program Evaluation. If you do not graduate within the maximum timeframe, your aid will be suspended. If a student earns 67 percent of the credits attempted each semester, the student should complete the program of study within the maximum timeframe. If you have extenuating circumstances, you can appeal your financial aid suspension for maximum timeframe violation only one time.

The 150% count will include transfer credits and all credits attempted in all programs of study in which the student has been enrolled, regardless of whether or not the earned credits apply towards the student's current program or to a previous program. A maximum of 30 hours of developmental coursework will be excluded from the maximum timeframe calculation. Once the student completes a certificate, diploma or degree the credits applied towards that credential will not be included in calculating maximum timeframe.

## **Maximum Time Frame Appeal**

Students who have exceeded the maximum time frame for their declared program of study must submit an "Exceeding Maximum Time Frame" appeal. The student must be meeting the cumulative 2.0 grade point average and 67% cumulative completion rate in order to submit a maximum time frame appeal. An appeal must be based on significant mitigating circumstances that seriously impacted academic performance.

A student is ineligible when it becomes mathematically impossible for the student to complete their active program within 150% (example 2 year degree within 3 years).

A complete maximum time frame appeal will include:

1. The "Exceeding Maximum Time Frame" Appeal form, and
2. A copy of the student's degree progress, which is available on the student's Self-Service Student Planning account. The degree progress displays completed courses and courses still required for program completion.
3. Students are strongly advised to submit third-party documentation supporting significant mitigating circumstances. For example, in case of significant medical issues, documentation may require medical reports and signed statements by physicians regarding the circumstances.

A student for whom a maximum time frame appeal is approved must complete 75% of all attempted credit hours with a minimum 2.0-grade point average each semester following the appeal approval. Failure to do so will result in suspension of financial aid eligibility.

Additional information and forms required to submit an appeal can be found on the [Financial Aid Office website](#).

## **Student Responsibilities**

It is the student's responsibility to monitor satisfactory academic progress as it relates to maintaining eligibility for financial aid. The Financial Aid Office assists with periodic measurement and notification to students who fail to meet the standards.

It is the student's responsibility to notify the Financial Aid Office of any grade change made after the official posting of semester grades.

It is the student's responsibility to follow up with the Financial Aid Office if s/he does not receive an appeal determination notice within three weeks of submitting the appeal.

NOTE: The Satisfactory Academic Progress Policy for financial aid recipients is different than the College's satisfactory progress standards maintained by the Counseling Department that places students on academic warning, probation or suspension for failure to achieve a 2.0 grade point average.

## **Return of Federal Funds**

Financial aid is awarded to students under the assumption that they will attend school for the entire period for which financial assistance is provided to them. Per the U.S. Department of Education, students must attend at least 60% of the term to be eligible to earn the funds they are awarded. If student receives all "XF" grades for a semester, aid will be recalculated.

Federal regulations require the College to perform a Return of Title IV calculation for students who enroll at the College using Title IV Funds, but who later stop attending classes, without initiating an official withdrawal. The results of the calculations may include full or partial cancellation of Title IV Funds (Pell Grant, FSEOG, Loans), which may result in the student owing funds back to the U.S. Department of Education.

An account balance will be created if the calculation results in the return of financial aid to the Department of Education's Title IV programs. The funds will be returned to the appropriate federal programs in the following order:

1. Unsubsidized Direct Loan
2. Subsidized Direct Loan
3. Federal PLUS Loans
4. Federal Pell Grants
5. Federal Supplemental Educational Opportunity Grants (FSEOG)

Unpaid balances due to CFCC that result from amounts returned will be charged back to the student and must be repaid under the conditions set by the College. Students with unpaid balances may be subjected to the following actions:

- Accounts forwarded to collections for non-payment.
- Registrations for future classes may be dropped.
- Future transcripts requests may be denied.
- Ability to register for classes and/or make changes to class schedules may be suspended.

## **Tuition/Fees/Books**

Students who are eligible for financial aid can charge their tuition, fees, and books up to the amount of their awards. If the amount of financial aid received is less than tuition, fees, and books, the student is required to pay the remaining balance at the time of registration or purchase of books.

Students who have been awarded financial aid and registered for classes, but do not attend at least once by the 10 percent date of the class may be administratively dropped as a "No Show." No-Show students will be removed from the class roster and will not be allowed to continue in the class. Financial aid awards will be adjusted accordingly.

Students will receive a refund for the excess amount of financial aid remaining on their account following the payment of tuition, fees, and books. In order to receive the refund electronically, students may sign up for direct deposit through Self Service under bank information. If a student decides not to sign up for direct deposit then a paper check will be mailed to the address that is currently on file. It is the student's responsibility to make certain that the mailing address on file with CFCC is correct to avoid delays in delivery of refund checks.

## **Foundation Scholarships**

Student scholarships are established through donations to the CFCC Foundation. Criteria for scholarships are specified by a donor in collaboration with Foundation staff, ensuring the most efficient use of the donation while helping as many students as possible.

The Foundation establishes endowed and Annual scholarships. Endowed scholarships are generated through the investment of permanently held principals from which only the interest is used. Annual scholarships are those from which all funds are dispersed as scholarships rather than as long-term investments. These scholarships are commonly referred to as "pass-through" scholarships.

## Merit Scholarships

Many outstanding local high school students want to attend CFCC. To assist them, the CFCC Foundation awards ten Merit Scholarships annually to deserving New Hanover and Pender County seniors who exhibit academic excellence. To qualify for a CFCC Merit Scholarship, you must:

- Be a current high school senior
- Have applied for or been approved to enroll in CFCC in a curriculum program
- Submit a letter of recommendation from your high school principal, guidance counselor, or a high school teacher
- Demonstrate academic potential through high school grades, rank in class, and/or aptitude test results
- Be a US citizen or documented alien

Consideration will be given for non-school activities, work experience, and community service. To apply for a Merit Scholarship, students should see their high school counselor or download an application from the [Foundation website](#).

The CFCC Financial Aid Office administers scholarships to CFCC students. Students should contact the Financial Aid office for applications, forms, and specific information (910-362-7338). Scholarships are subject to change without notice. For a current list of available scholarships, please go to the [CFCC Foundation webpage](#). To learn more, please visit the [CFCC Foundation website](#) for scholarship applications and additional information.

## Overaward Policy

The Financial Aid Office is required to monitor and adjust students' financial aid awards to eliminate overawards and/or overpayments in compliance with federal and state regulations and institutional policy.

**What is an Overaward?** An overaward exists when any of the following situations occur:

### Cost of Attendance Overaward

An overaward occurs when the student's financial aid exceeds the student's Cost of Attendance (COA). Financial aid is defined as any educational cash or cash-equivalent (i.e., gift cards, meal cards) benefits paid to the student's account or directly to the student because of enrollment, such as:

- Pell Grants;
- Direct Subsidized and Unsubsidized Loans;
- Direct PLUS and Graduate PLUS Loans;
- Long-term need-based loans;
- Grants (federal, state, institutional, external)
- Scholarships (federal, state, institutional, external), including athletic scholarships and scholarships that require future employment;
- Employer reimbursement of employee's tuition;
- Waivers of tuition and fees;
- Net income from need-based employment such as FWS;
- AmeriCorps awards or post-service benefits

### How does an Overaward occur?

Overawards are usually the result of the student receiving scholarship aid after the student's Financial Aid Package was created. Examples of overawards include, but are not limited to:

- A student receives additional scholarships or aid after their original financial aid package is finalized
- A student's Student Aid Index (SAI) increases due to updates from the verification process

- There are errors on the aid application

In accordance with federal, state, and institutional regulations, the Financial Aid Office is required to take corrective action to resolve any overawards, regardless of the cause. If an overaward is identified after funds have been disbursed, the student may be held responsible for repaying any excess aid to the institution.

### **How are Overawards corrected?**

Following federal and state regulations and institutional policy, the Financial Aid Office will resolve the overaward in the most favorable way for the student.

To avert or alleviate an overaward, the Financial Aid Office will determine whether the student has increased costs that were not anticipated when the student was initially awarded. Following this step, aid will be reduced to ensure compliance with regulations while minimizing the impact on the student whenever possible.

The order in which aid funds are adjusted or reduced to resolve an overaward is as follows:

1. Private Student Loans
2. Federal Direct PLUS Loan
3. Federal Direct Unsubsidized Loan
4. Federal Direct Subsidized Loan
5. FWS – Federal Work Study
6. FSEOG – Federal Student Educational Opportunity Grant
7. Other State Funds
8. Internal Scholarships
9. External Scholarships

*CFCC Board of Trustees approved May 22, 2025*

Let's Get Started!

## **Health Science Enrollment Center (HSEC) / Health Science Programs**

The HSEC is an information portal for students interested in the healthcare field. Students can get information about CFCC's health-related programs through Curriculum and/or Economic and Workforce Development (EWD). The college offers programs that are selective admissions or open enrollment. The staff in the center are available to help students understand specific program requirements and the scope of the various professions. HSEC Health Education Advisors and Navigators provide general guidance, academic advising, assist with registration and make referrals based on the student's needs, including career exploration. The Health Science Enrollment Center is located on the Wilmington Campus on the second floor of Union Station, and can be reached by phone at 910-362-7139 or by email at [healthsciences@cfcc.edu](mailto:healthsciences@cfcc.edu). For additional information and to review health education programs, please visit the appropriate academic program page or [Health Science Enrollment Center](#) on the CFCC website.

### **Selective Admission Health Education Programs (Curriculum):**

Associate Degree Nursing (AAS)

Associate Degree Nursing Transition (AAS)

Cardiovascular Sonography (AAS & Diploma)

Dental Assisting (Diploma)

Dental Hygiene (AAS)

Medical Assisting (AAS & Diploma)

Medical Laboratory Technology (AAS)

Medical Sonography (AAS)

Occupational Therapy Assistant (AAS)

Pharmacy Technology (AAS & Diploma)

Practical Nursing (Diploma)

LPN to RN Accelerated Path (AAS)

Radiography (AAS)

CT and MRI (Certificates)

RIBN (in collaboration with ECU)

Surgical Technology (AAS)

Veterinary Medical Technology (AAS)

In addition to meeting general college admission requirements, students applying to selective admission programs must first meet program specific requirements. These include:

- Complete the college and program application processes by established deadlines
- Ensure that official high school and college transcripts (if applicable) are on file at CFCC
- Meet CFCC minimum GPA requirements
- Meet minimum English and math requirements
- Meet science course requirements
- Meet any additional requirements as described in the information packets of each selective health education program (these are accessible at the individual program webpage)

An overview of these requirements can be found on the [CFCC Health Sciences Enrollment webpage](#) and the [CFCC Health Sciences Admission Steps webpage](#).

## **Open Enrollment Health Science Programs:**

Emergency Medical Science (Curriculum and Economic Workforce Development (EWD))

Health and Fitness Science (Curriculum only)

Social and Human Services (Curriculum and EWD)

Medical Office Administration (Curriculum only)

Nurse Aid (CCP and EWD only)

Phlebotomy (EWD only)

In addition to the above-listed programs, CFCC also offers a variety of health education career paths that reflect market needs through the Economic and Workforce Development Department. These can be accessed on the [CFCC Economic and Workforce Development Healthcare careers webpage](#).

## Housing

The College does not have housing facilities. However, upon request and if known, college officials will provide students information concerning available housing. Students are advised to have a clear understanding with landlords regarding all rental and/or lease agreements. Students are urged to make housing arrangements well in advance of enrollment.

Let's Get Started!

## Independent Study

CFCC provides the opportunity for students to pursue, on an individual basis, subjects in the students' major area of study. Independent study is not intended, nor will it be allowed, as a substitute for existing courses as listed in the schedule of classes. If the student is preparing to complete the last full semester of study prior to graduation and the college is unable to offer a major course required for a degree, independent study may be considered. In an independent study arrangement, the student first seeks approval from the respective department chair who then works to identify an instructor to supervise the study. The chair will contact the student to let them know if there is an instructor available to supervise the study. The student then meets with the instructor. The instructor provides a course outline and discusses course requirements and expectations with the student. The instructor then notifies the appropriate chair who authorizes scheduling of the course. The number of credits may vary. Current tuition rates apply, as do standard grading policies. Independent study opportunities are for students who:

- are currently enrolled in classes at CFCC
- have earned a 2.0 or higher cumulative GPA
- have completed 12 credits in their major program of study
- have met the pre-requisites and/or co-requisites of the course proposed for independent study

Independent study courses are subject to the consent of the department chair and the availability of qualified instructors. Courses are run by semester and all work must be completed within the semester dates. Only one (1) course taken as independent study may be applied toward an associate degree, diploma, or certificate.

Let's Get Started!

## Information for Students

All faculty are required to provide students with a syllabus and essential course information—either in print or digital format—on the first day of class. The syllabus must include essential information about class policies, standards, and objectives, as determined by the institution. Specific required elements may be updated periodically to reflect institutional priorities and compliance requirements.

In the event of any changes to the original course syllabus during the conduct of the course, all changes must be communicated in digital format and/or hardcopy to students. All instructors will provide their essential class and contact information to students through the College's LMS.

*CFCC Board of Trustees approved September 25, 2025*

Let's Get Started!

## Institutional Indebtedness

No student will be permitted to receive their degree, diploma or certificate, or register for classes until all financial obligations to the College are satisfied.

Let's Get Started!



## Insurance

### Student Accident Insurance

Cape Fear Community College provides excess student accident insurance at no additional cost to all registered and enrolled curriculum and continuing education students. This insurance covers injuries that occur as a result of a covered accident while the student is:

- Participating in activities sponsored, and supervised, by the college (excluding intercollegiate athletics);
- Traveling during college sponsored activities when transportation is provided, or arranged by the college;
- Traveling directly between the student's home and the site of a covered college-sponsored activity.

*Students are encouraged to seek medical attention from their primary provider as soon as it is needed.*

**To file a student accident insurance claim (supplemental ONLY), the student must do the following:**

1. If applicable, **file an Incident Report**, or obtain a copy from the Campus Safety Office.
2. Complete the Student Accident Claim Form in its entirety;
3. Submit both forms to Student Services for submission to the approved Insurance Carrier;
4. Submit all itemized medical bills, along with the primary Explanation of Benefits (EOB), and any other documentation requested by the insurance carrier.

### Student Professional Liability Insurance

Students enrolled in Health Sciences or other selective admission programs that include clinical or work-based learning, may be required to carry additional professional liability insurance. This insurance coverage helps protect the student, the college, and affiliated community partners. For more information regarding this requirement and any associated fees, please contact the appropriate program coordinator or director.

For additional information regarding claim forms, coverage, benefits, exclusions, limitations, provisions, and related definitions, please contact **Student Services**.

Let's Get Started!

## myCFCC

myCFCC is a web-based portal that links all aspects of campus life to create a community environment. It provides services such as e-mail, campus announcements, message boards, calendars, and discussion groups. Accounts are created upon acceptance to the College. Students are encouraged to check myCFCC on a regular basis to receive important college information. A link to myCFCC is on the [CFCC website](#).

Let's Get Started!

## NC High School to Community College Articulation Agreement

Through an agreement between the North Carolina State Department of Public Instruction and the North Carolina Community College System, high school graduates are eligible to receive CFCC credits for certain courses upon presentation and evaluation of a high school transcript. Courses eligible for CFCC credit can be found in the articulation agreement. Copies of the agreement are located in the offices of high school counselors. Award of credit will only be given for courses that are required in a student's CFCC program of study. Criteria to award college credit:

- Students must enroll at the community college within two years of their high school graduation date.
- A grade of "B" or higher is required for the course.



- A raw score of 90 or higher is required on the standardized Career and Technical Education (CTE) post-assessment score report.

Any student wishing to receive credit should submit both an official high school transcript and CTE post-assessment score report. The Registrar's Office should then be contacted for transcript evaluation.

Let's Get Started!

## Online Learning

Online Learning is dedicated to the design, implementation, and evaluation of high-quality online education. Online Learning staff provides resources and services to assist faculty with learning and utilizing engaging, current technologies and designing and teaching online courses.

Online learning (OL) happens in classes in which all or a portion of instruction takes place online. There are four types of classes with online learning components at CFCC: Internet, Internet Synchronous, Hybrid, and Blended.

- Internet class instruction is delivered 100% online, where the students and instructors do not meet face-to-face but interact entirely in an online environment asynchronously. These classes are always indicated by an "I" in the section code (e.g. CIS-110-I02 and BIO- 240-I01).
- Internet Synchronous class instruction is delivered 100% online, where the students and instructors do not meet face-to-face but interact in an online environment synchronously (Note: Some Internet Synchronous classes could have an asynchronous portion as well). The days/times for the required online synchronous meetings will be posted on students' schedules when they sign up for the class. Internet synchronous courses depend heavily on student interaction during the virtual class meeting; therefore, students must have access to a camera and microphone. Faculty may require students to utilize the camera and microphone to participate during some or all class meetings. These classes are always indicated by an "IS" in the section code (e.g. ENG 111 IS01, SOC 210 IS04).
- Hybrid class instruction is delivered online asynchronously with a requirement that students also meet face-to-face (in-classroom). The days/times for the required face-to-face meetings will be posted on students' schedules when they sign up for the class. These classes are always indicated by a "Y" in the section code (e.g. BIO-112-DY01 and ACA-122-NY01A). Hybrid classes may be scheduled with 51-99% of instruction being delivered online.
- Blended class instruction is delivered face-to-face with a requirement that students also complete work online, asynchronously. The days/times for the required face-to-face meetings will be posted on students' schedules when they sign up for the course. These classes are always indicated by an "L" in the section code (e.g. ENG 111 DL01, SOC 210 NL04). Blended classes may be scheduled with 1-50% of instruction being delivered online.

In addition to the Internet, Internet Synchronous, Hybrid, and Blended classes, CFCC's face-to-face classes are often web-assisted. In a web-assisted class, all instruction is delivered face-to-face, and supplemental materials are available online. This means that certain course materials are made available to students through a learning management system (LMS) such as Canvas. These materials typically include a class schedule, course syllabus, instructor contact information, and a gradebook though some instructors may choose to provide other course materials through the LMS. In addition, some instructors may choose to administer quizzes or tests through the LMS. To access these materials, students are required to have access to a computer and the Internet.

Note: Internet classes may have required face-to-face, proctored exams. Please contact the individual instructor or department to determine if a particular section has such a requirement.

Online Learning classes follow the same college requirements as traditional classes. College policies, such as admission, withdrawal, financial aid, etc. apply to online classes. Online classes are not self-paced. They follow the same college calendar as face-to-face classes.

Online Learning class materials become available at specific times as the class progresses, and students are required to meet regular deadlines. These classes can, when fully online, require several hours of independent work each week. Because of this, online classes are best suited for students who are strongly self-motivated, self-disciplined, and have excellent time management skills. Additionally, because all online classes require the use of a computer, they should only be taken by students who are already comfortable using computers for various types of applications, such as word processing, web browsing, chat, discussion boards, etc.; who are proficient in written communication; and who have regular access to a computer and Internet service. For online learning help, Canvas help, resources, and tutorials, please visit the [CFCC Online Learning webpage](#). Students should also reach out to the [CFCC IT Help Desk](#) for technical assistance if needed.

## Online Learning Attendance

Attendance in Online, Hybrid, and Blended courses is determined by the completion of the Enrollment Verification (EV) quiz on or before the course's Census Date. This quiz is located within the Canvas course site and must be completed to confirm enrollment.

Failure to complete the Enrollment Verification quiz by the Census Date will result in administrative withdrawal from the course.

In Hybrid and Blended courses, which include both in-person and online components, attendance for enrollment verification purposes may be established either by physical attendance at a scheduled face-to-face class meeting or by completion of the Enrollment Verification quiz in Canvas.

For questions regarding completing the Enrollment Verification quiz, please contact your instructor.

Let's Get Started!

## Orientation

The Student Services and Enrollment Management Division offers an orientation program to acquaint new students to the College, its facilities, resources, services, activities, organizations, and policies. This orientation is mandatory for all new students prior to class registration.

Let's Get Started!

## Partnerships with Business Industry

Cape Fear Community College and its partners work together to provide a variety of academic, cultural, and work-based experiences designed to enhance the educational experience of students and improve the quality of life for local residents.

## Work Based Learning

CFCC partners with local business and industry to offer students on-the-job training opportunities through Work Based Learning. Participating students may earn college credit using approved work experience(s) specifically related to their educational program goals. Work Based Learning classes include WBL 110, WBL 111, WBL 112, WBL 115, WBL 121, WBL 125, WBL 131, and WBL 215. Employers and organizations interested in having a Work-Based-Learning student are urged to contact the Coordinator of Career and Technical Education at 910-362-7144 and see our [Work-Based Learning webpage](#).

**Student Enrollment Criteria:** To qualify for one of these classes, students must meet the following criteria:

- Must be at least 18 years old. Students under 18 years old may participate if they have approval from the college and worksite. They must also complete an online NCDOL Youth Employment Certificate. The responsibility for filing the certificate lies with the employer.
- Must be enrolled in a program that offers WBL courses.
- Transcripts or degree audit must be attached with your application.

**Please Note:** Individual programs may have additional requirements for enrolling in a Work-Based-Learning work experience course.

**Registration Process:** To register for a Work-Based Learning course, a student must first submit an application directly to the WBL instructor. A Work-Based Learning application is required each semester the student plans to enroll. The application is available online on the [Work-Based Learning webpage](#).

**Please note:** Work-Based-Learning courses may not transfer to four-year institutions. Students should always check with the receiving college or university to verify the transferability of any course. The college reserves the right to limit work-based learning experiences based on the appropriateness, applicability, and location of the position.

For more information, please see the [Work-Based Learning webpage](#) or contact the Program Director (AAS programs only).

## Partnerships with Community Agencies

### Service Learning

CFCC partners with local community service-based agencies to provide students enrolled in select classes the opportunity to complete service learning activities to fulfill requirements for a course project. The goal of service learning is to integrate into an assignment meaningful community service activities that help students better understand the course content. These activities should:

- Provide opportunity to apply ideas and theories learned in class to a reflective, service-based experience;
- Help students become more interconnected with the community through their contributions.

## Partnerships with Four-Year Institutions

CFCC partners with public and private North Carolina four-year colleges and universities to provide a clear pathway from associate degree coursework to baccalaureate studies.

**Statewide Comprehensive Articulation Agreements:** The following transfer articulation agreements between North Carolina community colleges and North Carolina colleges and universities provide qualifying AA, AE, AS, and AFA graduates clear guidelines for transferring from CFCC to a four-year college or university in North Carolina:

- The North Carolina Comprehensive Articulation Agreement between North Carolina community colleges and North Carolina public universities.
- The Uniform Articulation Agreement between the University Of North Carolina Baccalaureate Engineering Programs and North Carolina Community College System Associate in Engineering Programs.
- The Independent Comprehensive Articulation Agreement between North Carolina community colleges and 24 North Carolina independent colleges and universities.

**Bilateral Agreements:** CFCC and select UNC institutions have bilateral agreements that provide qualifying graduates of AA, AS, and some AAS programs a pathway for transferring coursework into a four-year degree.

For more information, refer to the “College Transfer General Information and Articulation Agreements” section of this handbook and see the [University Transfer Information webpage](#).

## C-STEP

*The Carolina Student Transfer Excellence Program (C-STEP)* is a partnership between Cape Fear Community College and the University of North Carolina at Chapel Hill. The goal of C-STEP is to identify high-achieving students who would not otherwise attend a selective college or university; to enroll these students in the Associate in Arts/Science program at one of the partnering community colleges; to mentor these students through successful completion of an Associate degree (AA/AS); to transfer these students, as juniors, to UNC-Chapel Hill; and to support their successful completion of a baccalaureate degree. Students who successfully complete their Associates degree (AA/AS), and remain in good standing with the C-STEP program are guaranteed future admission to the University of North Carolina - Chapel Hill. Interested students should visit the [CFCC C-STEP](#) webpage for information on how to apply.

Let's Get Started!

## Personnel in the Armed Services

Any active duty member of the armed services or a military dependent who does not qualify as a North Carolina resident for tuition purposes may be eligible to pay a reduced tuition rate if eligibility requirements for the Military Tuition Benefit (N.C.General Statute Section 116-143.3) have been met. Members for reserve components are not eligible for the benefit unless they have been called up for active duty.

Let's Get Started!

## Registering for Classes

### Semester System

The academic year is divided into two semesters and summer sessions. The Fall and Spring semesters offer courses in sixteen (16) weeks, a four (4) week mini session, two eight (8) week mini sessions, and one twelve (12) week late start session. The Summer terms are provided either in a ten (10) week session, an eight (8) week late start session, or two five(5) week sessions. Consult the Schedule of Classes for specific scheduling information.

### Semester Hour Credit

Each course listed in the catalog and class schedule is followed by a notation on the number of semester hours it earns. Normally, the number of semester hours earned is based on the number of class, laboratory or shop hours spent under the supervision of the course instructor per week for the semester. Usually one semester hour credit is given for each lecture hour of class per week, for each two hours of laboratory work per week, or for each three hours of shop or manipulative laboratory per week. (A class hour is usually defined as 50 minutes of instruction). Exceptions may be made in cases where specific classification is not feasible.

### Course Load/Overload

Students enrolled in a fall or spring semester for 12 or more credit hours are designated as full-time students. Students taking 11 or fewer credits during a fall or spring semester are considered part-time. Students enrolled in the Summer Session for 9 or more credit hours are designated as full-time students for insurance purposes. Students receiving Financial Aid benefits must be enrolled for 12 or more credit hours each semester, including the summer, to receive full benefits. Veterans benefits for the Summer-full time is seven(7) hours for the 10 week session or four (4) hours each five (5) week session. Students who are placed on academic probation may be required to take a reduced course load.

Maximum course loads for which students may enroll are as follows:

- Fall and/or Spring Semester(s)-Eighteen (18) credit hours except when program requirements determine otherwise.
- Summer Term-Thirteen (13) credit hours except when program requirements determine otherwise.

Any exception to maximum course load must be approved by the Director of the Academic Advising Center or the Dean of Student Support Services.

## Prerequisites and Corequisites

A prerequisite is a course that must be taken prior to another course. A corequisite is a course that must be taken prior to or concurrently with another course. The college may mandate prerequisites and corequisites to ensure students are prepared to meet the requirements of the course material. Prerequisites and corequisites are identified in the catalog with the course descriptions. Students are responsible for meeting their program requirements, including prerequisites and corequisites. If students sign up for a class and do not meet the prerequisite and/or corequisite requirements they will be administratively dropped from the course.

Students who drop on their own or who are administratively dropped after the first day of class may not be eligible for a full refund. Students are advised to review published course prerequisites and corequisites carefully before enrolling.

## Waiver of Prerequisites and Corequisites

The Vice President for Academic Affairs may waive prerequisites and corequisites. Normally, a waiver will be recommended by the appropriate program director and approved by the department chair, dean, and the Vice President for Academic Affairs.

## Priority Registration

Currently enrolled students are assigned registration priority to be able to register before new and returning students for an upcoming registration period. Registration information is emailed to students' CFCC email account. Students may register online using Self Service Student Planning. A listing of priority dates and times are listed on the CFCC Records and Registration website.

## Auditing Courses

Students who wish to audit courses must register for the audit by following the regular admissions and registration procedures and indicating in writing on an audit form which course(s) they are auditing. Auditing students must meet all course prerequisites. A student who audits a course section shall not displace students enrolling or registering to receive a grade, academic credit, continuing education unit (CEU) or certificate of completion in the course section. If it is determined by the 10% date of the course that a student seeking a grade, credit, CEU, or certificate needs the course, an auditing student may be administratively dropped to allow space for the other student. The audit form must be signed by the instructor and turned into the Registrar's Office on or before the course start date but not later than the 10% date of the course. Auditing students receive no credit and are not required to participate in class discussion or take tests. At the end of the term, auditing students will receive a grade of "AU" (Audit) or "SR" (Senior Audit). Tuition and fees for audited courses are the same as those taken for credit. Students will be responsible for paying any/all tuition, fees and/or textbook costs. (Seniors age 65+ who plan to audit a course, please read the "Tuition Waiver for Auditing Seniors" paragraph below.) Changes from audit to credit or credit to audit may only be done during registration and through the last day to add a course for the term. Students should be aware that Financial Aid and Veteran benefits do not pay for audited courses. Audited courses do not transfer.

Seniors (age 65+) who wish to audit a course will follow the same policy and procedure information listed in the “Auditing Courses” paragraph above except that they will receive a waiver of tuition. Auditing seniors are still responsible for paying fees and purchasing any required books and supplies for the course. In order to receive the waiver, seniors must provide proof of age through a driver’s license, state identification card, or other government-issued document. Seniors who receive the waiver are not eligible to change from audit to credit.

Let's Get Started!

## Student Identification Card

Cape Fear Community College issues student ID cards for all students. These cards grant students access to student parking decks, special events, and more.

To get a CFCC ID Card, you must have paid and registered for the current term. Bring your photo ID and a current class schedule.

You can get your CFCC Student ID card at the Cashier window located at North Campus or the Downtown Campus. You must present a valid government photo ID and you must have paid and be registered for the current term. You can keep your student ID for the duration you are enrolled.

**Curriculum Students:** There is no charge for your first card.

**Continuing Education Students:** There is a \$5.00 fee for your student ID card.

**Online Students:** As a fully online student, you are not charged the parking fee. If you would like to get a parking pass, you can come to the Cashier window and purchase a pass.

For additional information, please see the [Student ID Information page](#) on the Student Life section of our website.

Let's Get Started!

## Supplemental Studies

To help ensure student success, the college offers courses to students who need help in the basic skills: mathematics, reading, and writing. These courses are required for those students who have been identified as needing enhancement in these skills.

Supplemental courses count toward registered credits as it applies to financial aid, veterans benefits, and enrollment status. These courses do not count as attempted or earned hours, nor do they count in a student’s academic grade-point average.

CFCC will recognize courses completed with an equivalent grade of “C” or above at other North Carolina accredited institutions. The transfer evaluation will be used for class placement by the advisor.

### Please Note:

**Prerequisites:** A course taken prior to another course.

**Corequisites:** A course taken at the same time as another course or prior to the course to be taken.

Some courses in communications, humanities/fine arts, mathematics, natural science, or social/behavioral science may fulfill a general education requirement in one of the following programs: AA (Associate in Arts), AS (Associate in Science), AFA (Associate in Fine Arts), AGE (Associate in General Education), AAS (Associate in Applied Science), DIP (Diploma), or CER (Certificate). Please refer to the programs of study section of this catalog for courses that satisfy each program’s general education requirements.

Let's Get Started!



## Testing

Course placement for all applicants to the college is determined by the unweighted high school GPA. Some applicants to degree, diploma, and certain certificate programs may have the option to take the RISE placement test in order to improve curriculum course placement. The placement test is not an entrance exam. The primary purpose of the placement test is to determine the individual's skill level and readiness. Test results will be used to determine the need, if any, for supplemental placement.

Placement tests are administered in the following areas: English and Math.

### Reinforced Instruction for Student Excellence: RISE

Math and English placement at the college will be determined primarily by their unweighted high school GPA using the following guidelines:

- Students with a GPA of 2.8 or higher may register for college-level math and English courses.
- Students who completed CCRG classes at a NC public high school and who have eligible scores on file can take gateway English and/or Math classes.
- Students with an unweighted GPA under 2.799 will be directed to appropriate prerequisite courses, which must be completed prior to taking college-level Math and English courses.

Students who graduated from high school more than 10 years ago or who graduated from an Adult High School without an eligible GPA or Foreign High School or received a pre-2014 GED high school credential or a HiSet with scores that do not provide placement or TASC high school credential are eligible to take the placement test to improve course placement. Placement testing is not required for admission to the College.

### The RISE Placement Test

The RISE Placement Test is an un-timed test taken on a computer. Fluency using a computer is not needed to take the test. The test is divided into two sections: English and Math. There is no fee for the test.

Testers need to bring a picture ID when coming to a test session. Testers should arrive at the testing center fifteen (15) minutes prior to the start of the testing session. Parking for testers is available in visitor parking on the open surface lots on the Wilmington or North Campuses.

Testers can access the testing schedule and sign up for a testing session by visiting the Testing Services website: [CFCC Placement Testing Reservation Calendar webpage](#).

Testing is generally offered every week that the college is open. To request accommodations based on a documented disability, requests for approval, assistance, and scheduling must be arranged through CFCC's Student Accessibility Services office 910-362-7017.

A schedule of dates/times of the Placement Tests can be obtained from CFCC's [Placement Testing Reservation Calendar webpage](#).

Let's Get Started!

## Textbooks, Educational Tools, and Fees

Students are expected to purchase textbooks which are usually available from the college bookstore at the beginning of each academic session. Although not required in all courses, additional educational tools are required in certain courses and programs. Some PED courses require an off-campus gym fee. Cameras, chef's tools, safety eyewear, steel-toed boots, and computers are examples of educational tools that are required for specific courses



and/or programs. The bookstore does not have a charge or credit system; therefore, books and tools must be paid for at the time of purchase. Effective July 1, 2010, textbook pricing information for curriculum courses will be available on the College's website as required by the Higher Education Opportunity Act.

Let's Get Started!

## Transcript of Record

Upon written request of the student, a transcript of classes taken and credits earned at Cape Fear Community College will be sent to other colleges or third parties. Transcripts must be requested through the College's website on the [Request a Transcript webpage](#). The non-refundable cost for an official transcript is \$7.00 each.

Let's Get Started!

## Tuition & Fees

Tuition is established by the North Carolina State Legislature and is subject to change without prior notification. Current tuition costs can be found on [CFCC's Tuition and Fees webpage](#) or in the Admissions Office.

Tuition is due and payable on the day of registration unless otherwise noted. Self-supporting classes are not free for any student. If tuition is a major factor in the student's determination to attend CFCC, the student should contact the Financial Aid Office as soon as possible.

Students who register for a course and do not attend at least once during the first 10 percent of the course will be dropped as a no show and not allowed to proceed with the course.

Payments can be made by cash, check, debit card, MasterCard, Visa, American Express, and Discover. Self Service is available for making payments by debit, credit cards, and checks. Payments are not accepted via the telephone. There is a third-party Payment Plan option available on the website if you need to make monthly payments.

## Student Fees

A non-refundable student fee is charged to all curriculum students for the Fall and Spring semesters. This fee is due and payable on the day of registration. The maximum fee charged is \$150.00 per academic year but is subject to change.

Funds collected from activity fees are used to support the costs of student publications, athletics, social activities sponsored by the Student Government Association, and student identification cards.

In the fall of 2003, the Board of Trustees of Cape Fear Community College approved a non-refundable "Technology Fee" to be charged to all curriculum students for the Fall, Spring, and Summer sessions. The \$3.00 per credit hour fee, not to exceed \$48.00 in a semester, is due and payable on the day of registration.

## Refund of Curriculum Tuition

A 100 percent tuition refund will be made if the pre-registered curriculum student officially drops any/all classes prior to the first day of the College's academic session/semester. Students are also eligible for a 100 percent tuition refund if the College cancels the class. Drops within the 75% refund period must be processed online through Self Service.

A 75 percent refund will be made if the student officially drops a class(es) during the period starting from the first day and ending on the 10 percent day of the course.

## **Classes beginning at times other than the first week (seven calendar days) of the semester**

A 100 percent refund shall be made if the student officially drops from the class prior to the first class meeting. Students are also eligible for a 100 percent tuition refund if the College cancels the class.

A 75 percent refund shall be made if the student officially drops from the class prior to or on the 10 percent point of the class.

Students who have not attended at least once by the 10 percent date of the class will be dropped by the instructor as a “No Show” and not allowed to continue with the course.

## **Return Check & Credit Card Chargeback Guidelines**

Tuition payment made with a check or credit card returned by the bank will be considered nonpayment of tuition. Students will lose their classes or will not be able to attend classes until full restitution is made. Absences incurred due to nonpayment of fees will be counted in accordance with the College’s attendance policy.

A returned check processing fee will be charged in the amount of \$35.00 for a paper check or e-check when payment is refused by the bank for any reason. A chargeback processing fee will be charged in the amount of \$35.00 for a credit card chargeback.

## **Tuition Refund Appeal Procedure**

Tuition refund appeals must be in writing and are reviewed by the Vice President for Student Services and appropriate area staff (in direct consultation with the Business Office). Appeals that do not represent a sound basis for reimbursement will be denied.

Written notification of approval/denial of appeals normally occurs within two weeks.

If a tuition refund appeal is denied by the Vice President of Student Services, a second-level appeal may be initiated by a student in writing. The Executive Vice President (or designee) conducts the second-level review. The Executive Vice President (or designee) will respond to a second-level appeal in writing within 10 working days. The decision made at the second level is final. Should an appeal be approved, Cape Fear Community College will promptly refund tuition and/or cancel a financial charge from a student's account.

## **Submitting an Appeal**

Tuition refund appeals will not be considered unless the student has officially withdrawn from the class(es). Students who are receiving financial aid should check with the Financial Aid Office prior to withdrawal to determine what effect this action may have on future financial aid eligibility and/or balances that may be owed if students withdraw from all classes before the 60% point. All tuition appeals must be in writing and submitted with supporting documentation to the Vice President for Student Services no later than fifteen (15) workdays after the start of the subsequent school term.

**Tuition appeals may generally be approved** for the following reasons as long as the appropriate written supporting documentation is provided

- Extended incapacitation/hospitalization of the student (which caused the student to miss 20 percent or more of scheduled instruction) documented by a physician’s statement on the doctor’s official letterhead (copies of the student’s medical records will not be accepted). This must be an unscheduled medical emergency diagnosed after the last day to drop for a tuition refund. The physician’s letter (on his/her letterhead) must include the date the student was first seen for the medical condition, as well as the

beginning and end date the student was incapacitated/hospitalized, and must state that the student was physically unable to participate in classes during this period of time. A letter that does not specifically state, “the student was physically unable to attend classes” will not be grounds to approve an appeal.

- Extended incapacitation/hospitalization or death of a student’s immediate family member (which caused the student to miss 20 percent or more of the scheduled instruction) – verified with appropriate documentation. Immediate family is defined as father, mother, spouse, child, sibling, stepfather, stepmother, stepchild, stepbrother or stepsister.
- Administrative difficulties with internships, placements or practicums involving the single enrollment of a student with supporting material from placement official.
- Late notifications of denial to a specific degree program with supporting documents.
- Institutional errors by CFCC that cause the delay of administrative processes relative to registration or the delivery of financial aid funds.

\*Other items may be considered with valid supporting documentation and/or evidence.

**Tuition appeals will not be approved** in the following instances:

- Personal errors in judgment or irresponsibility involving transportation, availability of finances, academic ability, time management, etc.
- Misinterpretation or lack of knowledge of college policies and procedures as published in the CFCC Catalog & Student Handbook or CFCC Schedule of Classes.
- Dissatisfaction with course content; issues concerning academic instruction must be addressed with the appropriate Department Chair and/or Academic Dean.
- Dissatisfaction with academic progress in course(s).
- Non-attendance or minimal attendance of class.
- Inadequate investigation of course requirements prior to registration and attendance.
- Non-qualification, late application, or loss of eligibility for financial aid or scholarship.
- Non-receipt of mail or electronic mail due to obsolete address on file with the Registrar’s Office.
- Changes of, or personal conflicts with, the instructor of record.
- Student error resulting in the delay of administrative processes relative to registration or the delivery of financial aid funds.
- Voluntary/involuntary acceptance of employment or other activity affecting the ability to attend class. (i.e. work schedule/hours changed; lack of childcare; vacation).
- Incarceration in a civilian or military facility.
- Other reasons not already specified.

## Statement on Involuntary Military Orders\*

Involuntary changes in military orders that result in the active duty member moving outside the New Hanover or Pender County areas are automatically refunded 100% of tuition unless the active duty member decides to remain enrolled in online classes after redeployment. Such changes will be documented by the commanding officer or the student providing valid and properly endorsed orders (includes dependents enrolled at Cape Fear Community College).

Orders must be Permanent Change of Duty Orders. Short-term orders (for more than 20 percent of the class sessions) associated with a national emergency may qualify.

## Veterans' Educational Benefits

The Veterans Services Coordinator is located in the Bob Philpott Veterans Center (U-124), and in the Veterans Center on North Campus (NB-200). The coordinator assists our military-affiliated and Veteran students, processes essential documentation, certifies enrollment, monitors academic progress, and ensures classes match program requirements.

The Veterans Services staff provides assistance to our students who are military-affiliated and veterans who are transitioning from military culture to civilian and academic life. The staff also provides guidance on veterans' educational benefits, veterans' resource assistance, and veterans' healthcare.

The eligibility for Veterans' educational benefits is based upon time in service and/or circumstance (disability or death) of the veteran, active duty service member, reserve component member, and National Guardsmen. Military affiliated students include the military student as well as any spouse, child, surviving spouse, or surviving child of a "military student" as defined in 37 U.S.C&101(3).

In order to activate your VA education benefit, the following will need to occur:

- Apply for and obtain the VA certificate of eligibility (COE) on the [Veterans Affairs website](#).
- Submit all official transcripts to CFCC
- Register for classes that are approved within your program evaluation
- Go to your Softdocs account, and submit the VA Benefit Certification form (VBCF)
- Submit the VBCF; it will automatically go to the School Certifying Officials

NOTE: Students must submit their VA Benefit Certification form every semester after they register to receive their benefits.

As of 8/1/22 VA requires all schools to charge the following students in state Tuition and Fees if they are living in the state where the school is located as of the first day of class:

- A Veteran using chapter 30 or chapter 33 who served on a period of active duty of at least 90 days.
- A spouse or child of a Veteran or active-duty service member using transferred benefits.
- A spouse or child using benefits using the Fry Scholarship.
- A spouse or child using Survivors' and Dependents' Educational Assistance Program (DEA/Chapter 35).
- A Veteran using chapter 31

Veteran benefit holders are entitled to priority registration.

Prospective students who are eligible or believe they may be eligible to receive veterans' educational benefits should contact the Veterans Affairs Staff at [va@cfcc.edu](mailto:va@cfcc.edu).

Visit the [CFCC Veterans Services webpage](#) for additional information.

## Ethical Recruitment of Student Veterans Policy

Cape Fear Community College strives to be an institution of high integrity and is committed to ensuring that recruitment and enrollment activities conducted at the college promote such an environment. The purpose of this policy is to ensure compliance with federal laws and regulation in order to prevent and eliminate fraudulent and aggressive recruitment of students (including but not limited to students using Veterans Affairs (VA) and Department of Defense (DoD) education benefits) to the college.

All departments, employees, and agents of Cape Fear Community College must comply with this policy.

### Policy Statement

Cape Fear Community College ensures compliance with Program Integrity Rules consistent with federal regulations (34 C.F.R. 668.71-668.75 and 668.14) and the Department of Defense (DoD) Voluntary Education Partnership Memorandum of Understanding (MOU) regarding restrictions on misrepresentation, recruitment, and payment of incentive compensation.

The college and its agents, including third party lead generators and marketing firms, will:

1. Ban inducements, including any gratuity, favor, discount, entertainment, hospitality, loan, transportation, lodging, meals, or other item having a monetary value of more than a de minimis amount, to any individual or entity, or its agents including third party lead generators or marketing firms other than salaries paid to employees or fees paid to contractors in conformity with all applicable laws for the purpose of securing enrollments of Service members or obtaining access to tuition assistance funds. Educational institution sponsored scholarships or grants and tuition reductions available to military students are permissible.
2. Refrain from providing any commission, bonus, or other incentive payment based directly or indirectly on securing enrollments or federal financial aid (including tuition assistance funds) to any persons or entities engaged in any student recruiting, admission activities, or making decisions regarding the award of student financial assistance. These restrictions do not apply to the recruitment of foreign students residing in foreign countries who are not eligible to receive Federal student assistance.

Tuition Sharing: The U.S. Department of Education generally views the payment based on the amount of tuition generated as an indirect payment of compensation based on success in recruitment and therefore a prohibited basis upon which to measure the value of the services provided. This is true regardless of the manner in which the entity compensates its employees.

However, the Department does not consider payment based on the amount of tuition generated by an institution to violate the incentive

compensation ban if that payment compensates an unaffiliated third party that provides a set of services that may include recruitment services. The independence of the third party (both as a corporate matter and as a decision maker) from the institution that provides the actual teaching and educational services is a significant safeguard against the abuses the Department has seen heretofore. When the institution determines the number of enrollments and hires an unaffiliated third party to provide bundled services that include recruitment, payment based on the amount of tuition generated does not incentivize the recruiting as it does when the recruiter is determining the enrollment numbers and there is essentially no limitation on enrollment.

As a Title IV institution, the college remains responsible for the actions of any entity that performs functions and tasks on its behalf. These responsibilities include ensuring that employees are not paid for services that would convert these payments into prohibited incentive compensation because of the activity the employees engage in.

3. Refrain from high pressure recruitment tactics such as making multiple unsolicited contacts (3 or more), including contacts by phone, email, or in person, and engaging in same-day recruitment and registration for the purpose of securing Service member enrollments.

### Guidance

The U.S. Department of Education (DOE) has issued guidance on the prohibition on incentive compensation that includes FAQs and examples, including examples of activities that are subject to the prohibition and those that are exempt, and the types of payments that are considered forms of incentive compensation and those that are not. This guidance is available on the DOE's [website](#).

## Sources

34 C.F.R. 668.71-668.75 and 668.14; Department of Defense Memorandum of Understanding; Federal Student Aid Program Participation Agreement; NACAC's Code of Ethics and Professional Practice

## Maintaining Eligibility for Veterans Educational Benefits

### Satisfactory Academic Progress

Veterans Benefits Administration requires that students receiving VA educational benefits maintain a 2.0 GPA, and Cape Fear Community College's satisfactory academic progress (SAP) to be eligible to continue to receive funding. If the cumulative GPA remains below 2.0 for two consecutive semesters and/or does not meet the 67 percent completion rate, the student will not be eligible to receive veterans' educational benefits. The student has the right to appeal for SAP by contacting the Director of Veterans Affairs office. This policy applies to all students receiving any educational benefit from the VA.

### Qualitative and Quantitative Standards

VA educational benefit recipients must meet both a "qualitative" and a "quantitative" standard to maintain eligibility for VA educational benefits. Students must maintain a cumulative 2.0 grade point average (GPA) to meet the qualitative standard. Students must also successfully complete 67 percent of all credits in which they enroll to meet the quantitative standard.

Transfer credits from institutions other than CFCC will be totaled and counted in the determination of completion rate and maximum time-frame.

Grades of "W", "WP", "WF", "NC", "NS", "I", "R", "U", "XF" and "F" do not count as successfully completed courses but do count as credits attempted and are used in the determination of enrollment status and maximum time frame. Audited courses are not eligible for VA educational benefits funding and are not included in the determination of a student's enrollment status for VA educational benefits purposes.

A student can repeat a previously-failed course once. All earned grades will be used to determine a student's compliance with the 2.0 cumulative GPA requirement and all attempted hours will be included in the calculation of maximum time frame.

### Timing of Measurement

Satisfactory academic progress is measured after every semester. All terms of enrollment at CFCC are included in the measurement, even if the student did NOT receive VA educational benefits. Summer and mini-sessions are also included.

### Failure to Achieve Satisfactory Academic Progress

Students who fail to meet either of the progression standards will receive a warning notice. The preferred method of notification is electronic; messages are sent to the student's CFCC e-mail account. Students on warning are eligible to receive one additional semester of VA educational benefits and are expected to use this period to reestablish satisfactory academic progress.

If a student fails to meet either standard for a second consecutive semester, s/he will receive a suspension (resulting in non-certification) notice. VA educational benefits will not be certified for a student on suspension until the student corrects the academic progress deficiencies. Students who do not meet the satisfactory academic progress requirements for VA educational benefits eligibility can enroll at CFCC without use of VA educational benefits to correct the deficiencies.

## **Appeal Process for Probationary Semester**

The right to appeal is granted to any student whose VA educational benefits eligibility has been suspended. An appeal must be based on significant mitigating circumstances that seriously affected academic performance.

The student should submit a written appeal to the Financial Aid Office. An appeal letter must include why the student failed to make satisfactory academic progress and what has changed that will allow the student to make progress at the next evaluation (i. e., at the end of the next semester of enrollment).

An appeal letter must be accompanied by:

- A typed academic plan clearly stating how the student intends to meet progress standards, and
- A copy of the student's degree progress, which is available on the student's Self Service Student Planning account. The degree progress displays completed courses and courses still required for program completion.
- Students are strongly advised to submit third party documentation supporting significant mitigating circumstances. For example, in case of significant medical issues, documentation may require medical reports and signed statements by physicians regarding the circumstances.

An appeal submitted without adequate documentation will be denied.

Please note that merely filing an appeal does NOT guarantee continued eligibility for VA educational benefits.

The Financial Aid Office will review the appeal within 15 weekdays. Students will be notified of the Financial Aid Office's decision. The preferred method of notification is electronic; the decision notice is sent to the student's CFCC e-mail account. The decision of the Financial Aid Office is final and no further appeals are allowed.

If the appeal is denied, the student may reestablish VA educational benefits eligibility for subsequent semesters ONLY by taking courses, without VA educational benefits, until s/he complies with all components of the CFCC satisfactory academic progress policy (67% completion rate and 2.0 minimum cumulative GPA).

If the appeal is approved, the student regains VA educational benefits eligibility for one probationary semester. During the probationary semester and all subsequent semesters, the student must achieve a 75% completion rate and maintain a term GPA of 2.0. Failure to do so will result in suspension (non-certification) of VA educational benefits after which the student will regain eligibility ONLY by taking a minimum of six (6) credits, without VA educational benefits, until s/he is in compliance with all components of the CFCC satisfactory academic progress policy (75% completion rate and 2.0 minimum cumulative GPA). The classes in which a student registers to regain eligibility must be required for program completion.

## **Maximum Time Frame**

To be eligible for VA educational benefits at CFCC, you must complete your degree within the maximum timeframe. This means graduating before accumulating 150% of the attempted credits required for completing your major. Attempted credits include all courses taken at the institution, regardless of whether or not you passed the class. Progression will be monitored using the students' current Program Evaluation. If you do not graduate within the maximum time frame, your VA educational benefit will not be certified. If a student earns 67 percent of the credits attempted each semester, the student should complete the program of study within the maximum timeframe. If you have extenuating circumstances, you can appeal your VA educational benefits suspension for maximum time frame violation only one time.



The 150% count will include transfer credits and all credits attempted in all programs of study in which the student has been enrolled, regardless of whether or not the earned credits apply towards the student's current program or to a previous program. Any developmental coursework will be excluded from the maximum time frame calculation. Once the student completes a certificate, diploma or degree the credits applied towards that credential will not be included in calculating maximum timeframe.

## Maximum Time Frame Appeal

Students who have exceeded the maximum time frame for their declared program of study must submit an "Exceeding Maximum Time Frame" appeal. The student must be meeting the cumulative 2.0 grade point average and 67% cumulative completion rate in order to submit a maximum time frame appeal. An appeal must be based on significant mitigating circumstances that seriously impacted academic performance.

A complete maximum time frame appeal will include:

1. The "Exceeding Maximum Time Frame" Appeal form, and
2. A copy of the student's degree progress, which is available on the student's Self-Service Student Planning account. The degree progress displays completed courses and courses still required for program completion.
3. Students are strongly advised to submit third-party documentation supporting significant mitigating circumstances. For example, in case of significant medical issues, documentation may require medical reports and signed statements by physicians regarding the circumstances.

A student for whom a maximum time frame appeal is approved must complete 75% of all attempted credit hours with a minimum 2.0-grade point average each semester following the appeal approval. Failure to do so will result in suspension (non-certification) of VA educational benefits eligibility.

Additional information and forms required to submit an appeal can be found on the [Financial Aid Office website](#).

## Student Responsibilities

It is the student's responsibility to monitor satisfactory academic progress as it relates to maintaining eligibility for VA educational benefits. The Financial Aid Office assists with periodic measurement and notification to students who fail to meet the standards.

It is the student's responsibility to notify the Financial Aid Office of any grade change made after the official posting of semester grades.

It is the student's responsibility to follow up with the Financial Aid Office if s/he does not receive an appeal determination notice within three weeks of submitting the appeal.

NOTE: The Satisfactory Academic Progress Policy for VA educational benefit recipients is different than the College's satisfactory progress standards maintained by the Counseling Department that places students on academic warning, probation or suspension for failure to achieve a 2.0-grade point average.

Registration is the term used for enrolling in classes. Students who need help with course planning should reach out to their faculty advisor or the Academic Advising Center for assistance.

## WHERE DO I GO?

|                                             |                                            |                            |
|---------------------------------------------|--------------------------------------------|----------------------------|
| Academic Advising                           | Assigned Advisor                           | U240 or NA100              |
| Academic Honors                             | Catalog / Registrar                        | U102 or NA100              |
| Academic Probation                          | Counseling                                 | U218                       |
| Accessibility Issues                        | Student Accessibility Services             | U218                       |
| Admissions                                  | Office of Admissions                       | U102 or NA100              |
| Address Change                              | Registrar                                  | U102 or NA100              |
| Advanced Placement Credit                   | Registrar                                  | U102 or NA100              |
| Athletics                                   | Athletics                                  | L112                       |
| Attendance/Absences                         | Instructor                                 |                            |
| Books/Supplies                              | Campus Bookstore                           | L104 or NA114              |
| Bulletin Boards                             | Student Services                           | U143                       |
| myCFCC Online Portal/Self Service Access    | Student IT Help Desk                       | A214 or NA117              |
| Career Development                          | Career Services                            | G126                       |
| Change Program/Major                        | Academic Advising Center                   | U240 or NA100              |
| Clubs and Organizations                     | Student Activities                         | U152                       |
| Course Selection                            | Faculty Advisor / Academic Advising Center | U240 or NA100              |
| Drop a Course                               | Registrar                                  | U102 or NA100              |
| Emergencies                                 | Campus Safety                              | Call 911                   |
| Financial Aid                               | Financial Aid Office                       | U102                       |
| First Aid                                   | Labs / Campus Safety                       | Various Locations/<br>A220 |
| Grading System                              | Catalog / Registrar                        | U102 or NA100              |
| Health Sciences Information                 | Health Science Enrollment Center           | U246                       |
| ID Card-Wilmington Campus                   | Cashier - Wilmington Campus                | U173                       |
| ID Card-North Campus                        | Cashier - North Campus                     | NA123                      |
| Insurance                                   | Business Office                            | U173 or NA123              |
| Lost & Found                                | Campus Safety                              | A220                       |
| Parking Permits/Regulations                 | Business Office / Cashier                  | U173 or NA123              |
| Personal Counseling                         | Counseling                                 | U218                       |
| Personal Enrichment & Workforce Development | Economic and Workforce Development         | G building                 |
| Registration                                | Academic Advising Center / Self-Service    | U240 or NA100              |
| Testing                                     | Testing Services                           | U211 or NA100              |
| Transcripts                                 | Registrar                                  | U102 or NA100              |
| Transfer Student Advising and Planning      | Academic Advising Center                   | U240 or NA100              |
| Tuition & Fees                              | Business Office                            | U173 or NA123              |
| Tutoring                                    | Learning Lab                               | L128 or NA113              |

|                          |                  |               |
|--------------------------|------------------|---------------|
| Veterans                 | Veterans' Center | U124          |
| Withdrawal from a Course | Registrar        | U102 or NA100 |

## Academic Integrity/Cheating & Plagiarism

Academic-Related Violations include, but are not limited to the following:

A. Plagiarism – Plagiarism includes submitting as one’s own work or creation of any kind that which is wholly or in part created by another. All sources, including Internet content, whether paraphrased or quoted, must be cited correctly. Direct quotes must have quotation marks around them, or they are considered plagiarism even if the quote is correctly cited. Rearranging parts of an author’s sentences or substituting a few words is NOT paraphrasing and also constitutes plagiarism. Plagiarism also includes submission of any work that is generated using artificial intelligence (AI) software or applications that auto-generate content. CFCC used detection software for plagiarism and AI content.

B. Cheating – is any practice which gives one student a dishonorable advantage over another student engaged in the same or similar course of study. It shall include, but is not limited to the following: securing or giving assistance during examinations or on required work; the improper use of books, notes, or other sources of information; or the altering of any grade or academic record.

C. Aiding Acts of Academic Dishonesty – Providing information to another student and knowing, or reasonably should have known, that the student intends to use the information for cheating or other deceptive purposes.

When a faculty member observes an academic-related violation on the part of the student, the case shall be handled in accordance with the following procedures:

1. The faculty member shall notify the student who has been observed cheating or plagiarizing that he/she will receive a grade of “F” on the assignment for the first offense. Notation should be made for the assignment in the College LMS that the failure occurred due to plagiarism. Subsequent violations will result in a grade of “F” for the assignment or a grade of “F” for the course at the instructor's discretion, or “F” in the course. For programs that have additional accreditation requirements, a grade of “F” may be given for the course as a result of any violation. The faculty member, however, shall afford the student an opportunity to clarify their position. If the faculty issues an “F” in the course, and the student wishes to appeal the final grade, the student may remain in the class until due process is completed.
2. The faculty member shall submit a written report of the incident stating the facts and the action taken to the appropriate department chair, academic dean, and Dean of Student Affairs, within five (5) weekdays from the time the incident was discovered. Upon request, the student shall receive a copy of the written report as submitted by the faculty member.

\*All College departments are required to adhere to this policy and not allow for separate individual faculty and/or departmental policies.

## Right of Appeal

If the student and department chair and/or academic dean fail to reach a mutual agreement, the student may submit a written appeal to the Vice President of Academic Affairs within five (5) weekdays.

The Vice President of Academic Affairs will present the appeal to the Dean of Student Affairs to serve as a student advocate and to coordinate a hearing with the Academic Subcommittee of the Judicial Board within ten (10) weekdays of notification. To ensure the student receives due process, the student will meet with the Dean of Student Affairs prior to the hearing to answer any questions or concerns that the student may have during the appeal process.

The subcommittee of the Judicial Board should include:

- a. Two (2) faculty and/or staff members appointed by the Dean of Student Affairs.
- b. The Vice President of Academic Affairs will serve as the chair without a vote (unless there is a tie). At the conclusion of the appeal hearing, the Vice President of Academic Affairs will notify the student, faculty member, department chair, and dean of the committee's decision. The student may appeal the Academic Subcommittee's decision to the President of the College or his/her designee. This appeal must be made within five (5) weekdays of the student's receipt of the notification made by the Vice President of Academic Affairs. The appeal process consists of the President of the College or his/her designee reviewing the written record submitted to date and does not involve an additional hearing. The President of the College or his/her designee will respond with his/her final decision to the appeal within ten (10) weekdays of receipt of the appeal.

*CFCC Board of Trustees approved July 18, 2024*

## Academic Standing: Warning & Probation

The policies governing academic standing at CFCC are intended to assist students in successfully completing their programs of study. Procedures are designed to identify students experiencing academic difficulty and to ensure effective corrective action. These procedures are supported by both faculty and staff, who are committed to

1. informing all students of minimum academic standards and grading procedures
2. identifying and alerting students displaying signs of academic difficulty early in the semester through an early alert process
3. providing recommendations and opportunities for corrective actions to such students
4. immediately notifying students with a cumulative grade point average of below a 2.0 following the end of the semester

Students enrolled in a degree, diploma, or certificate program are expected to maintain satisfactory academic progress toward the completion of the requirements for their program. A minimum grade point average (GPA) of at least 2.0 is required to graduate with a credential from CFCC.

## Academic Warning

Students whose cumulative grade point averages fall below a 2.0 for any given semester will be placed on academic warning for the following semester. The notice of the warning will be sent to the students and their advisor for documentation purposes. Students on academic warning are encouraged to access CFCC resources including the Learning Lab, Counseling, enrolling in ACA 122 (if applicable to student's program), the Academic Advising Center, Student Accessibility Services, Financial Aid, and/or Career Services.

## Academic Probation

Students on academic warning whose cumulative grade point average remains below a 2.0 for the subsequent semester will be placed on academic probation for the upcoming semester. Students on academic probation are required to meet with their assigned Counselor to develop an Academic Improvement Plan before registering for classes. The Academic Improvement Plan may include the following interventions to assist the student with improving his/her GPA:

- Limiting the number of courses in which the student may register in the subsequent semester. The student may not be allowed to register as a full-time student. Based on the student's academic record, a Counselor and/or Academic Advisor has the authority to limit students to a reduced course load. This information will be outlined in the student's Academic Improvement Plan.
- Repeating a course in which the student earned a low grade.
- Meeting with someone in the Learning Lab, and attending appropriate student success seminars and/or tutoring sessions.

Furthermore, students on academic probation whose cumulative grade point average remains below 2.0 in any subsequent semester thereafter will remain on academic probation until the 2.0 cumulative GPA is met. Students continuing on academic probation are required to meet with their assigned Counselor as determined in the Academic Improvement Plan until their cumulative GPA reaches 2.0.

Students receiving financial aid must maintain satisfactory academic progress (SAP) to be eligible to continue to receive funding. All earned grades will be used to determine a student's compliance with the 2.0 cumulative GPA requirement, and all attempted hours will be included in the calculation of maximum time frame. For specific details students should contact their Financial Aid Coordinator.

*CFCC Board of Trustees approved May 18, 2023*

## Attendance Policy

College instruction is designed for students to learn by way of class attendance, and regular attendance is a key to academic success. Attendance is based on class meetings and calculated from the first class meeting, not based on when the student enrolls in the class. Students are expected to punctually attend all class sessions in the courses for which they are registered. Late arrivals and/or early departures may count toward total absences in classes.

Students who have not attended at least once by the Census date of the course may be administratively dropped as a "No Show." No-Show students will be removed from the class roster and will not be allowed to continue in the class.

Within their respective departmental guidelines, instructors are responsible for stating their own course attendance and tardiness requirements on course syllabi distributed at the beginning of the academic term. It is the student's responsibility to know and understand the attendance requirements for each instructor and to understand how attendance in class might affect his or her final grade. Regardless of how attendance is used in grading, faculty are required to keep a timely record of attendance for each student through the end of the semester using college-approved, record-keeping software.

Attendance in online (Internet, Internet Synchronous, Hybrid, Blended, and Hyflex) courses is measured not only by completion of an initial enrollment verification assignment (on or before the Census Date of the course) but also by completion of the required coursework and/or online participation, as defined by the instructor on the

course syllabus. In courses with synchronous meeting times (Internet Synchronous, Hybrid, and Blended), students **MUST** meet on the required meeting dates specified (first class meeting, lab, etc.). Log into MyCFCC from the [CFCC website](#) for course information or contact your instructor.

**Attendance policy for students enrolling in a prerequisite English or math course:** Students who enroll in a prerequisite math or English course must attend **at least 80%** of the meeting dates. Students who exceed the maximum allowable absences in the prerequisite support course may be administratively withdrawn by the instructor and may receive a grade of “W”.

Special note: Some programs may require that students participate in instructional activities during a holiday or semester break when students are normally off. When such occurs, students must participate. Some examples are Marine Technology and Veterinary Medical Technology.

Adding a course late: After the last day to add a class for a term, students who wish to add a class or be reinstated to a class, must complete a Late Add/Reinstatement Request Form for review & approval or disapproval.

## Excused Absences due to Public Health Emergencies

If a student is asked to remain home due to a public health emergency, every effort will be made to ensure that the student remains on track with all coursework. This may include allowing the student to complete assignments and participate in the class remotely when possible. Absences incurred during the recommended or directed self-isolation period will not violate an instructor’s attendance policy as long as the student has contacted the Dean of Students’ office prior to missing class. The college acknowledges that some classes include content and experiences that cannot be completed remotely. In these cases, instructors, department chairs, and the Vice President of Academic Affairs and the Vice President of Student Services will discuss what options are available to assist students in completing their course of study.

## Veteran & Military Service Member Attendance Policy

CFCC recognizes the unique situations that our students who are veterans and/or military service members of the US Armed Forces sometimes endure situations which can affect their attendance. If a veteran and/or military service member student receives orders for unexpected short-term deployment or training, or for medical appointments and/or hospitalization due to service related injuries, absences that result from these orders or appointments will not count toward the total number of absences allowable per the attendance policy of each class in which that student is enrolled.

A student seeking an excused absence should first present military orders and/or medical documentation from an approved provider (Military Hospitals, Veterans Healthcare Administration, and/or Veterans Community Care Program) in relation to service-connected injuries to the Director of Veterans Affairs or Veterans Services Coordinator, to be verified for the respective department chair and the student’s instructor. CFCC will adhere to the Excused Absence for Military Service policy, prescribed by the State Board of Community Colleges (SBCCC.500.1), for those service members forward deployed or in training, contingent upon orders submitted to the Director of Veterans Affairs and Veteran Services Coordinator.

The college acknowledges that some classes, such as biology and clinicals in nursing and allied health programs, have unique content; it may not be possible for a student to receive an extension on the assignments in these courses.



We also recognize that there will be unique cases that will require the exercise of sound judgment. Instructors, department chairs, and the Director of Veteran Affairs and Veteran Services Coordinator will collectively discuss these cases to determine the best way to assist our veteran and/or military service member students in completing their course of study.

Students who are currently serving in the Guard/Reserve must adhere to the College's No Show policy by attending all of their classes before the deployment or training begins. Students unable to attend class on or prior to the census date (10% point of class) should register for another class session when available.

## Religious Observance Notification

Students will be allowed two days of excused absence each academic year for religious observances required by the faith of the student. Students are required to provide written notice of the request for an excused absence by completing the Religious Observance Absence form available in Student Services and Enrollment Management. The completed form must be submitted to the Vice President for Student Services and Enrollment Management or his/her designee a minimum of ten (10) school days prior to the religious observance. The Vice President for Student Services and Enrollment Management or his/her designee will notify the instructor within three (3) school days of receiving the request. Students will be given the opportunity to make up any tests or other work missed due to the excused absence and should work with their instructors in advance of the excused absence to delineate how to make up the missed coursework (N.C.G.S. 115D-5).

## Grades

### Grading and Grade Point Averages

Grading is done by the traditional method of "A" through "F." Grades are assigned a numerical value when determining a student's Grade Point Average (GPA).

## Grading System

| Grades and Quality Points |                                     |             |  |
|---------------------------|-------------------------------------|-------------|--|
| Grade                     | Significance/Description            | Grade Value |  |
| A                         | Superior                            | 4           |  |
| B                         | Good                                | 3           |  |
| C                         | Average                             | 2           |  |
| D                         | Poor                                | 1           |  |
| F                         | Failure                             | 0           |  |
| XF                        | Unofficial Withdrawal (failure)     | 0           |  |
| I                         | Incomplete                          | n/a         |  |
| W                         | Official Withdrawal                 | n/a         |  |
| AU                        | Audit                               | n/a         |  |
| SR                        | Senior Audit                        | n/a         |  |
| Grades no longer issued   |                                     |             |  |
| CR                        | Credit by Proficiency Exam          | n/a         |  |
| CT                        | Credit by Transfer                  | n/a         |  |
| IE                        | Incomplete Emergency (Covid)        | n/a         |  |
| NC                        | Unofficial Withdrawal (failure)     | 0           |  |
| NS                        | No Show (never attended)            | n/a         |  |
| P                         | RISE Corequisite (pass)             | n/a         |  |
| P1                        | Transition course - Tier 1 complete | n/a         |  |
| P2                        | Transition course - Tier 2 complete | n/a         |  |
| P3                        | Transition course - Tier 3 complete | n/a         |  |
| PA                        | Passing (remedial courses only)     | n/a         |  |
| PB                        | Passing (remedial courses only)     | n/a         |  |
| PC                        | Passing (remedial courses only)     | n/a         |  |
| R                         | Repeat (remedial courses only)      | n/a         |  |
| WE                        | Withdrawal Emergency (Covid)        | n/a         |  |

CFCC Board of Trustees approved March 27, 2025

## Grading Scale

The College grading scale is:

|   |   |          |
|---|---|----------|
| A | = | 90 - 100 |
| B | = | 80 - 89  |
| C | = | 70 - 79  |
| D | = | 60 - 69  |
| F | = | 0 - 59   |

\* Please note: Some program specific courses within the College may adopt a different grading scale due to accreditation requirements. Students should consult course syllabi for specific scale information.

*CFCC Board of Trustees approved January 18, 2024*

## Translating Course Grades into GPA

By taking the number of semester hours assigned to a course and multiplying that credit value by the value of the grade, you determine the grade points for each course attempted. Example: If you take five courses that are assigned a total of 18 semester hours, you may determine your term GPA in the following manner:

| COURSE        | GRADE | HOURS ATTEMPTED |   | GRADE VALUE |   | QUALITY POINTS |
|---------------|-------|-----------------|---|-------------|---|----------------|
| 1             | B     | 2               | X | 3           | = | 6              |
| 2             | A     | 6               | X | 4           | = | 24             |
| 3             | C     | 4               | X | 2           | = | 8              |
| 4             | B     | 3               | X | 3           | = | 9              |
| 5             | F     | 3               | X | 0           | = | 0              |
| <b>TOTALS</b> |       | <b>18</b>       |   |             |   | <b>47</b>      |

Divide the total quality points by the number of credit hours attempted (per the example this is 47 divided by 18) and that will give you your GPA; in this case 2.61 is the GPA. If a course was repeated, only use the course with the best grade when calculating the GPA. For example, if ENG-111 was taken in the spring 2020 term with an earned grade of D and then it was retaken in the fall 2020 term with a grade of B, you will only include the attempt from fall 2020 which has the highest grade. Only the highest grade per course is used in the GPA calculation at CFCC.

## Final Grades

Final grades will be available through Self Service for students after the end of each academic session. Course grades, along with semester and cumulative grade point average (GPA), will be displayed. Grade reports are not mailed to students.

## Incomplete Grades

A grade of incomplete (I) will be given only when circumstances justify additional time to complete a class. Students must contact their instructor in writing to request a grade of incomplete at least one week prior to the last day of classes of the section for which they are requesting an incomplete. Students must have successfully completed at least 75% of the required coursework for a class to be eligible to receive a grade of incomplete. Students may be required to provide documentation of the circumstances justifying their request for additional time. When an incomplete is granted, the class requirements must be completed within six weeks of the beginning date of the next academic semester (including summer). Incompletes (I) not finalized within the appropriate time frame will convert to a grade of "F". After the Incomplete Grade form has been approved by the student, the student must proceed with the Incomplete and cannot later request to be issued another grade such as a "W" for withdrawal. Extensions to the six-week time frame may be requested by faculty and must be approved by the Vice President of Academic Affairs in consideration of students' extenuating circumstances.

*CFCC Board of Trustees approved May 18, 2023*

## Course Repeat Policy

Courses that are repeated fall into three different categories:

1. Courses with an earned grade of “C” or better may be repeated two times.
2. Courses with an earned grade of “D,” “F,” “W,” “WP,” “XF,” or “WF” may be repeated until successfully completed.
3. Audit courses may be repeated a maximum of two times unless an exception is made.

When a course has been repeated, the higher grade will be used in the Grade Point Average (GPA) calculation. Lower grades will be removed from GPA calculation; however, these grades will continue to appear on the academic transcript.

Students who receive veteran benefits or financial aid should be advised that they may not receive funds for repeating courses which they have already passed.

Also, students who have received a degree from CFCC should be advised that the policy will not apply to courses which were taken to fulfill previous graduation requirements. A final student program GPA is computed at the time of graduation, and this GPA may not be recalculated as courses are repeated.

## Academic Forgiveness

Academic Forgiveness is designed to provide returning students with low grades a fresh start upon re-enrolling after at least three terms of non-enrollment at CFCC (one full year). Prior to applying for academic forgiveness, the student must demonstrate a renewed academic interest and effort by earning at least a 2.0 term GPA in the first six (6) semester hours completed after re-enrollment. Developmental course credits will not count toward the first six (6) hours. At the time of application for Academic Forgiveness, the student should not have any failing grades during the re-enrollment period. Students returning to their same program of study may be best served by retaking courses for replacement grades instead of pursuing Academic Forgiveness.

After completing 6 credit hours with a 2.0 or higher term GPA, students should consult with their CFCC assigned academic advisor and/or counselor to determine if they are eligible for academic forgiveness. If the determination is made that the student is eligible for academic forgiveness, then the student must complete and submit the Academic Forgiveness form. Once submitted, the Registrar’s Office will review the student’s academic record for eligibility and students will be notified of a decision via their CFCC student email account.

The following points apply regarding the consideration of academic forgiveness:

1. Academic forgiveness is not reversible and may only be applied once during an academic career at CFCC.
2. Students granted academic forgiveness will have their cumulative grade point averages recalculated. While the forgiven grades will continue to appear on the official transcript, they will be marked as forgiven.
3. Grades which may be disregarded from students’ grade point averages are “F,” “XF,” “WF,” and “NC.” Grades of D may be forgiven if it is determined by the Registrar that the course is unable to be retaken for a better grade.
4. Courses that have been applied toward an awarded certificate, diploma, or degree at CFCC are not eligible for academic forgiveness.
5. Grades that are included in academic forgiveness are not exempt from academic progress relating to financial aid and VA educational benefits.
6. Since developmental course work does not count in the student’s cumulative GPA, developmental course grades are not eligible for academic forgiveness.

7. Academic Forgiveness has no bearing on any other institution or how they calculate grade point averages. Students planning to transfer should ask their receiving institution how Academic Forgiveness will be considered.

Note: The three-term period of non-enrollment starts the term after the last enrollment and goes for three full terms. For example, if the student stops attending after the Fall term, they must not enroll the following Spring, Summer, or Fall to be eligible.

*CFCC Board of Trustees approved May 18, 2023*

## Grade Appeal Procedure

The purpose of the Student Grade Appeal Procedure is to provide an orderly and equitable process for resolving differences between students and faculty relating to final grades where the student believes he/she is being treated unfairly or arbitrarily.

### Procedure

Step 1. The student with the conflict must first make an appeal in writing to the class instructor to attempt to resolve the difference. This initial appeal must be made by the student within five (5) weekdays of the posting of final grades for the term. Every reasonable effort should be made to resolve the matter at this level (Step 1). The instructor will notify his/her department chair in writing of the grade appeal.

Step 2. If the student is not satisfied with the decision of his/her instructor in Step 1, he/she may, within five (5) weekdays of the date of notification of the instructor's decision on the grade appeal, file a written appeal to the instructional dean responsible for the course in question. The dean will review and evaluate the appeal to determine what action, if any, should be taken to resolve the conflict. Written notification of that determination will be sent to the student within five (5) weekdays of receipt of student's written notice.

Step 3. If the student is dissatisfied with the outcome of Step 2, he/she may, within five (5) weekdays of the date of notification of Step 2, file a written notice of appeal to the Vice President for Student Services. The Vice President for Student Services will convene the Academic Subcommittee of the Judicial Board to hear the appeal and make a determination regarding the appeal. The Vice President for Student Services will then notify, in writing, the student, the dean, the department chair, and the instructor of the Academic Subcommittee's decision. The student may appeal the Academic Subcommittee's decision to the President of the College or his/her designee. This appeal must be made within ten (10) weekdays of the student's receipt of the Academic Subcommittee's decision. The appeal process consists of the President of the College or his/her designee reviewing the written record submitted to date and does not involve an additional hearing. The President of the College or his/her designee will respond with his/her final decision to the appeal within ten (10) weekdays of receipt of the appeal.

Students dismissed from the clinical area in Health Sciences and Nursing programs will follow the appeals process outlined in the program student handbook.

## Graduating from CFCC

### Requirements for Graduation

To receive an Associate Degree, Diploma, or Certificate, a student must maintain satisfactory grades in all laboratory and class subjects and a cumulative grade point average of at least 2.0. Students must earn a minimum of 25 percent of credit hour requirements at Cape Fear Community College. Credit for Prior learning credit cannot count towards the 25% requirement.

## Commencement Regalia Policy

In recognition of the significance of commencement, all Cape Fear Community College (CFCC) commencement ceremony participants, including stage party, employees, and student graduates, must wear the CFCC-approved academic regalia - gown, cap, tassel, stole, and if appropriate, a hood representative of the highest degree earned. CFCC-associated academic honors or affiliation-based cords/stoles are also permissible. All commencement regalia, including associated braided cords (Honors, Phi Theta Kappa, US Veterans, etc.) must be ordered through the college's recognized regalia provider. Stoles and cords other than the aforementioned will not be allowed. CFCC understands and respects that we have a proud and diverse population of students and employees. Any other adornment must be approved by email ([gradinfo@mail.cfcc.edu](mailto:gradinfo@mail.cfcc.edu)), with accompanied photos, at least 30 days prior to the commencement ceremony.

## Mortarboard (Cap) Decorations

CFCC recognizes that decorations and personalization of caps for the commencement ceremony may be an important expressive activity for our graduates. However, the following provisions and guidance must be adhered to:

*No Profanity No Derogatory, Indecent, Offensive Images or Language No Inappropriate Slogans or Symbols*

Regalia decorations or adornments motivated by animosity against a person or group based on race, color, national origin, sex, gender, gender identity, disability, religion, age, veteran status, or any other protected class, which may infringe on the rights and freedoms of others, will not be permitted. To respect the significance of this occasion, CFCC reserves the right to ask any individual to remove any adornments deemed disruptive, harassing, inappropriate, or to be a safety risk or distraction prior to entering the commencement venue. Refusal or failure to comply, an individual may be asked to leave the college premises immediately.

## Intent to Graduate

Candidates for graduation must file an Intent to Graduate online for Degrees, Diplomas, and Certificates. At that time, candidates will also complete the Graduating Student Opinion Survey. There are priority dates in which you will need to file this. Please reference the academic calendar for these dates to ensure you file your Intent to Graduate on time. Generally, you should file your Intent to Graduate as soon as you have started your last term of classes for your program. Filing by these priority dates will ensure that you will be able to walk in the commencement ceremony and have your name published in the program.

There are no fees associated with applying for graduation.

Upon completion of program requirements, the College may award the credential without student request.

Commencement exercises are held following the spring semester (May) and at the end of the summer session (August).

Students who graduate in December are invited to participate in the May commencement exercises.

Upon graduation, a student's Program of Study will end. Therefore, students must contact Academic Advising to declare a new Program of Study if they plan to continue enrollment at CFCC.

Additional Graduation information can be found at [cfcc.edu/graduation](http://cfcc.edu/graduation).

## Graduation Needs

Orders for caps and gowns will be accepted by a company vendor during announced dates. The cost for these is paid directly to the company vendor. Students who anticipate participating in spring or summer graduation ceremonies will be provided a limited number of commencement tickets. The number of tickets distributed to

each graduate is determined by how many graduates plan to walk in the ceremony. Other graduation items may be purchased from the company vendor. Students completing graduation requirements at the close of the fall academic session will be invited to participate in the May ceremony.

## **Graduation Honors**

### **President's Award**

Graduating students who have achieved an "A" average, defined as a cumulative grade point average of 4.0, by the end of the term preceding graduation are recognized each year at commencement exercises for academic excellence. Courses numbered below the 100 level are not used to determine Graduation Honors.

### **Departmental Honors**

Students who have demonstrated outstanding leadership, attitude and ability will be awarded Departmental Honors. Recipients for these awards are selected by lead instructors in cooperation with appropriate faculty.

### **Academic Honors**

Academic Honors are calculated at the end of each term in which a student is enrolled and become part of the student's permanent academic record. Courses numbered below the 100 level or that are considered developmental are not used to determine Academic Honors.

### **President's List**

Students who complete 12 or more credit hours during fall and spring semesters and 9 or more credit hours in the summer semester who have earned a grade point average of 4.00 will be placed on the President's List.

### **Dean's List**

Students who complete 12 or more credit hours during fall and spring semesters and 9 or more credit hours in the summer semester who have earned a grade point average of 3.50 with no grade lower than a "C" will be placed on the Dean's List.

### **Honors List**

Students who complete at least 4 credit hours and earned a grade point average of 3.50 with no grade lower than a "C" will be placed on the Honors List. For the fall and spring semesters this would be 4 to 11 completed credits and for summer this would be 4 to 8 completed credits.

## **Withdraw Information**

During the add/drop period, students can drop classes using Self-Service. After the add/drop period ends, students must follow the [withdrawal process](#). Students who wish to withdraw from a course after the add/drop period should first consult their instructor and/or assigned counselor before requesting to be withdrawn from a course. Students that are dual enrolled at CFCC should consult with their high school counselor and/or CFCC Career Coach prior to withdrawing from a course. Course withdrawals also may impact a student's financial aid status; therefore, students are strongly recommended to consult with a financial aid representative prior to withdrawing. Veteran students should consult with the Veterans Services Coordinator in financial aid.

To officially withdraw from a class, students must submit a Course Withdrawal Request form. Students who officially withdraw from a class by the established withdrawal deadline (75 percent point of the class) will receive a grade of "W" on their official record and transcript.



## Exceptions to 75% Withdrawal Date (Extenuating Withdrawal)

The Vice President of Student Services may make exceptions to extend the 75% date when warranted in cases of extenuating circumstances at his/her discretion. Such cases shall include, but are not limited to, national or local emergencies, weather related events, or student medical related absences. In such cases a grade of “W” will be issued during the final twenty five percent (25%) of the academic term. In addition, if another grade was already issued for the course(s) prior to an appeal approval, it will be changed to the grade of “W.” If the request for an extended withdrawal originates from a student (or their legal power of attorney or guardian in cases where the student is incapacitated) for the purposes of medical related absences, they must comply with the following steps:

1. Submit medical documentation supporting a request for a medical withdrawal within thirty (30) calendar days of the last attended class unless medical documentation is provided that satisfactorily explains a longer time period. It is most feasible that the request and documentation be submitted before the end of the semester (and end of the classes) in question. The documentation must be submitted to the Vice President.
2. The decision of the Vice President will be communicated to the student via registered mail, hand-delivered, or electronically with confirmation of receipt from the student. The Vice President’s decision is final.
3. Students who are granted medical withdrawals will receive the grade of “W” in all courses in progress and/or specified in the request.

Withdrawing may have a negative impact on students’ Satisfactory Academic Progress status, and as a result, withdrawals may lead to a loss of eligibility for future financial aid (including loans). Students are urged to review the college policies on Satisfactory Academic Progress for Financial Aid Recipients and contact the Financial Aid Office before withdrawing to discuss potential impact on their bill and/or financial aid eligibility.

## Unofficial Withdrawals:

- An “unofficial withdrawal” occurs when a student stops attending a course and does not actively and consistently participate in any academic-related activities beyond the 75 percent date of the term.
- Students who are unofficially withdrawn will be issued final grades of XF. The grade of XF will be assigned as a student’s course grade when all of the following conditions are met:
  - Failed a course (no credits earned).
  - Attended a course at least once in the first 10 percent of the course.
  - Stopped attending and/or did not participate in any academic-related activity (as defined below) on or before the 75 percent date of the term.
  - Did not officially withdraw or return to the course beyond the 75 percent date of the term.

No tuition or fee adjustments will be made. The XF grade will calculate the same as an F (failure) grade, affecting GPA in the same manner as an F. Students who receive an XF or W grade may be required to repay a percentage of their Federal Aid back to the Department of Education or to the Veterans Administration.

Notes:

Examples of “academic-related” activities that may count as attendance are inclusive of (but not limited to): physically attending class, participating in class with a “clicker” device, submitting an assignment/exam/tutorial, attending a study group assigned by the instructor, or participating in an online discussion about academic matters. Simply logging into an online course does not count as an academic-related activity.

Please refer to the Academic Calendar for the withdrawal deadlines for each term.

Go to <http://cfcc.edu/finaid/> for more information about financial rules and policies.

CFCC Board of Trustees approved May 18, 2023

# Student Code of Conduct

The College makes every effort to maintain a safe and healthy learning environment for its students and employees alike. When a student is in violation of the Code of Conduct, they will be subject to disciplinary action by the College, and if warranted, referred to the appropriate law enforcement agency. It is expected that students are courteous, respectful, accountable, and conduct themselves as responsible members of the College community. Participation in any activity which, in the opinion of the administration, disrupts the educational process or functioning of the College may result in disciplinary action. Specific violations of the Code of Conduct and/or college policy include, but are not limited to the following:

**Academic Integrity** (*cheating and/or plagiarism*)

**Bullying/Hazing** (*initiating or participating in verbal, social, or physical bullying; whether in person, through social media, electronic devices, or any other means*)

**Children on Campus**

**Communicating Threats**

**Computer Acceptable Use**

**Destruction of College Property**

**Discrimination**

**Drug, Alcohol and Controlled Substance**

**Fighting**

**Forgery**

**Fraud**

**Gambling**

**General Disruptive Behavior**

**Harassment**

**Larceny/Theft**

**Profanity/Obscene Language**

**Sexual Misconduct**

**Substance Abuse and/or Possession** (*any drug as defined under North Carolina General Statutes*)

**Tobacco Free Campus**

**Violation of Federal, State, or Local Law**

**Weapons on Campus** (*possess or carry, any weapon on campus, whether openly or concealed*)

**Zero Tolerance**

Violation of these rules of conduct and/or policy will not be tolerated in or on any part of the campus, its satellites, equipment it operates, or wherever its employees or students are required to be while performing their duties as employees or students. Any violation of these standards of behavior may result in disciplinary sanctions and/or dismissal from the College. Additional classroom rules may be designated by instructors or supervisors and must

be followed at all times. College administrators have the right to contact parents of any student under the age of 21 who has violated a federal, state, or local law, or any rule or policy of the institution, governing the use or possession of alcohol or a controlled substance.

Any person observing a conduct violation(s) should immediately contact the Dean of Student Affairs or the Vice President for Student Services.

## Conduct Warning, Probation, Suspension, and Expulsion

CFCC students are expected to conduct themselves in accordance with college rules, regulations, policy and/or local, state or federal law. Any student whose conduct or behavior becomes unsatisfactory may be placed on conduct warning, probation, suspension, or may be expelled from the college. If an act of misconduct threatens the safety, health or well-being of the College community or severely disrupts the educational process/learning environment, the Dean of Student Affairs or his/her designee, may impose an interim suspension, or campus ban, from the College and/or College premises until disciplinary proceedings are completed and due process is provided to the student. Interim suspension may result in exclusion from class and/or other College related privileges or activities until a final decision can be made concerning the alleged violation. A student is subject to immediate suspension and expulsion, if deemed necessary, by the Dean of Student Affairs or Vice President for Student Services.. CFCC has the right and responsibility to protect the welfare of the college community and has the discretion to impose disciplinary sanctions under the CFCC Student Code of Conduct.

**Warning** – is a status of “conduct warning” through the duration at CFCC.

**Probation** – is a status of “conduct probation” for the duration at CFCC.

As part of conduct probation a student may have restrictions placed on specific student privileges or may be required to satisfy certain conditions to return as determined by an administrative hearing and/or the Dean of Student Affairs. In the event of a further violation of the Code of Conduct, or other College rules while on disciplinary probation, the College may seek the penalty of suspension or expulsion if warranted.

**Suspension** – is the status of “conduct suspension”, which involves immediate removal from campus, withdrawal from enrollment for a specific period of time, registration privileges revoked, and will remain on the student’s permanent record.

**Expulsion** – is the permanent dismissal of a student from the College. Expulsion will result in immediate removal from campus, withdrawal from enrollment, registration privileges revoked, and will result in a permanent notation on the CFCC official transcript.

### Conditions to Return

Any student that is on conduct probation, suspension or removed from classes due to a code of conduct violation may be required to submit appropriate documentation or satisfy certain conditions to return as determined by an administrative hearing and/or the Dean of Student Affairs. Those conditions may include, but are not limited to, counseling, evaluation/assessment by a mental health provider, anger management, proof of rehabilitation and/or other required documentation.

All suspended students must meet with the Dean of Student Affairs or designee to make clear the terms of their suspension from the College. Re-enrollment after a suspension period requires that the student apply to the Dean of Student Affairs at the close of the imposed period, and the Dean will determine whether the student has met the conditions imposed and is otherwise eligible for re-enrollment. To ensure due process, a denial may be appealed to the Judicial Board.

Cape Fear Community College has the authority, exercised in its reasoned judgment, to ban students, employees, and visitors, using existing policies, and/or procedures (i.e. Code of Conduct suspensions, expulsions). Likewise, the college may ban a student on an interim basis if he or she is deemed to pose an imminent threat to college property or operations, to the safety or well-being of others, or otherwise has engaged in unacceptably disruptive conduct that disturbs the CFCC learning and working environment. During the term of suspension and/or expulsion, the student may not come onto campus (campus ban) and may be served with a No-Trespass Order. Failure to abide by this condition may result in arrest for criminal trespassing and/or referred for prosecution.

A student who is suspended or expelled after the deadline for withdrawal ("W"), shall be assigned a grade of "W" and administratively withdrawn regardless of academic performance.

## Right of Appeal

If a student wishes to appeal a conduct sanction or action taken by the College, he/she may file a written appeal within five (5) weekdays of the incident to the Vice President for Student Services.

The Vice President of Student Services will present the appeal to the Dean of Student Affairs to serve as a student advocate and to coordinate a hearing with the Code of Conduct Subcommittee of the Judicial Board within ten (10) weekdays of notification. To ensure the student receives due process, the student will meet with the Dean of Student Affairs prior to the hearing to answer any questions or concerns that the student may have during the appeal process.

The subcommittee of the Judicial Board should include:

1. Two faculty and/or staff members appointed by the Dean of Student Affairs.
2. The Vice President of Student Services who will serve as the chair without a vote, (unless there is a tie).

At the conclusion of the appeal hearing, the Vice President of Student Services will notify the student and Dean of Student Affairs of the committee's decision. The student may appeal the Code of Conduct Subcommittee's decision to the President of the College or his/her designee. This appeal must be made within five (5) weekdays of the student's receipt of the Code of Conduct Subcommittee's decision. The appeal process consists of the President of the College or his/her designee reviewing the written record submitted to date and does not involve an additional hearing. The President of the College or his/her designee will respond with his/her final decision to the appeal within ten (10) weekdays of receipt of the appeal.

## Judicial Board

Cape Fear Community College supports students' constitutional right to due process. The Judicial Board is the vehicle to ensure the right of appeal.

The right of appeal is granted to any student who has a grievance concerning final grades, academic integrity (cheating/plagiarism), conduct suspension or expulsion, or feels he/she has been discriminated against or denied service on the basis of race, color, national origin, age, religion, disability or sex.

The Judicial Board will consist of seven (7) representatives from all areas of the College including faculty, staff, and administration. The Judicial Board's subcommittees will act on the following categories of student appeals. The Judicial Board will hear appeals concerning final grades, academic integrity, conduct suspension or expulsion, and charges of discrimination and/or denial of service on the basis of race, color, national origin, age, religion, handicap or sex. The subcommittee's areas of responsibility of the Judicial Board are listed below.

## Academic Subcommittee of the Judicial Board

The Academic Subcommittee will hear appeals in the matter of academic integrity (cheating or plagiarism) and grade appeal (final grades). The subcommittee will consist of members selected from the Judicial Board membership and others as deemed necessary by the Dean of Student Affairs. The committee will consist of two (2) or more representatives from the Judicial Board and the Vice President of Academic Affairs will serve as chair.

## Code of Conduct (Disciplinary and Sexual Misconduct) Subcommittee of the Judicial Board

The Code of Conduct Subcommittee will hear appeals concerning conduct from the college's Office of Student Affairs. The subcommittee will consist of members selected from the Judicial Board membership and others as deemed necessary by the Dean of Student Affairs. The committee will consist of two (2) or more representatives from the Judicial Board and the Vice President of Student Services will serve as chair.

*CFCC Board of Trustees approved May 18, 2023*

## Acceptable Use Policy

### Purpose

This Acceptable Use Policy acts as an agreement between the College and the user receiving Information Technology (IT) assets. Assets are defined as anything that has value to an organization, including, but not limited to, another organization, person, computing device, IT system, IT network, software (both an installed instance and a physical instance), virtual computing platform (common in cloud and virtualized computing), and related hardware (e.g., locks, cabinets, keyboards). This Acceptable Use Policy defines permitted usage of these assets, as well as restricted actions that users must not take in order to reduce risk to the College.

### Applicability

This policy applies to all users within the College who receive and utilize College assets, which includes all members of the workforce (both on-site and remote), third-party vendors, contractors, service providers, consultants, or any other individual that operates a college asset. It is the user's responsibility to read and understand this policy and to conduct their activities in accordance with its terms. In addition, users must read and understand the College's Information Security Policy and its associated standards. Users who find the policy statements within this document to be unclear are encouraged to reach out to IT in order to clarify any remaining ambiguities.

### Enforcement

Failure to follow the Acceptable Use Policy and any misuse of the College's Computing resources may result in the loss of access (privilege may be suspended immediately upon discovery of violations). Also, law enforcement agencies may be involved (through court order). Failure to follow the regulations described here will result in disciplinary action taken in accordance with the College's Discipline Procedure (Section 5.63) and Disciplinary Process (Section 5.64). Any conduct that violates local, state, or federal laws will result in the immediate loss of all access to the College computing resources and will be referred to appropriate College offices and/or law enforcement authorities. Cape Fear Community College is not liable for actions of anyone connected to the Internet through the College's computing resources. All users will assume full liability: legal, financial, or otherwise for their actions.

## User Responsibilities

1. Users must only use approved technology and services.
2. All College assets are on loan to users so that essential job functions may be performed.
3. Upon separation from the College or contract termination, all supplied IT assets, and the associated data must be returned by the user.
4. Users must secure the physical environment around their workstation and lock their computers when stepping away.
5. Users must ensure that Personally Identifiable Information (PII), confidential, and any sensitive data that may be covered by government or other regulation, is not readily available or accessible on their desks or within their workspace.
6. All users must take appropriate care to protect information, systems and related assets within their custody or care from loss, damage, or harm.
  - a. Lost or damaged equipment must be reported to IT as soon as practical.
7. Users must store their passwords in a secure manner.
  - a. Approved password managers must be used to store passwords digitally.
8. User's assigned accounts must only access assets, operating systems, applications, files, and data to which they have been granted access. The ability to inadvertently read, execute, modify, delete, or copy data does not imply permission to do so.
9. Only authorized users are permitted to post content or create the impression that they are representing, stating opinions, or otherwise making statements on behalf of the College on social networking sites, blogs, or other internet sites.
10. Users must keep knowledge about information and information systems gained during employment confidential and confidentiality must be maintained after employment ceases.

## Prohibited Use

1. Only approved and authorized devices may be connected to networks owned or managed by the College. This includes portable end-user devices, removable devices (e.g., USB sticks) and personally-owned devices.
2. Users must not share their passwords with others or allow the use of their account by others.
  - a. Users are responsible for all activity originating from their usernames and accounts.
3. Users must not circumvent user authentication mechanisms or the security of any user account or information system asset.
4. Users must not install software, hardware, or modify system configuration settings on any College asset, unless explicitly permitted by the user's role and responsibility.
5. Users must not engage in any activity with the intent to disrupt College assets or networks.
  - a. Users must not perform any form of network monitoring, port scanning or security scanning unless this activity is a part of the individual's normal job and is formally authorized.
6. Users must not leverage College assets for personal economic gain.
7. Users must not leverage the "Remember Me" or "Remember my Password" function inside of a browser.

## Expectations of Privacy

1. When using College resources, the user shall have no expectation of privacy. Access and use of the Internet, including communication by e-mail and instant messaging and the content thereof, are not confidential, except in certain limited cases recognized by law.
2. The College reserves the right to monitor, access, and disclose all information generated and actions performed using College IT assets. Files, messages (including attachments), and logs may be retained and used as evidence in litigation, audits, and investigations, and may be subject to inspection under the Public Records Law of the State of North Carolina.

## Personal Use

1. Users are permitted limited personal use of college assets, such as visiting websites and checking personal email accounts.
  - a. Users may access web-based personal password managers on college assets. Local installation of a password manager must be approved by IT.
  - i. Users must not store College passwords in personal password managers.
  - b. Users must not use browser sync or browser profiles that will move a user's browser history from a personal device to a college asset (or vice versa).
2. Users must not use personally-owned accounts (e.g., Apple ID, Google Account, Microsoft Account) for device-wide accounts (e.g., Android, iOS, Windows) on college devices unless permitted by the College.
  - a. Users must work with IT to create College-specific accounts for required assets and third-party services, such as creating a college-owned Apple ID for an Apple device.
3. Users must not use College license keys on personal devices unless authorized by the College.
4. College data must not be stored on non-College, personal cloud provider platforms (e.g., Google Drive, Microsoft OneDrive, Dropbox).

## Reporting Violations

Users who are aware of any event which threatens the availability, integrity or confidentiality of college data, or which breaches any standard, policy, procedure, or any associated requirement, or is contrary to law, must immediately contact IT or their immediate manager.

## Bring Your Own Device

1. Personal devices must not be connected to the College network without formal authorization.
2. College data must not be stored on personal devices without formal authorization.
3. Users leveraging their personal device to store College data may have their device completely wiped. Reasons for device wipe may include:
  - a. Lost / stolen device
  - b. Termination of user's employment
  - c. Compromised / hacked account or device

*CFCC Board of Trustees approved July 17, 2025*



## Dress & Attire

In an effort to provide a professional and safe learning environment that is inclusive for all students, CFCC expects all individuals to dress appropriately and in a manner that will not disrupt or distract from the educational purpose of this institution. Students are required to wear shoes at all times to ensure safety and promote good hygiene. Clothing or attire that is objectively offensive, and/or sexually explicit is not acceptable. Students enrolled in certain Technical/Vocational or Health Science curriculum, may be required to wear special attire for clinical or laboratory classes. If special attire is required, students may not attend classes, laboratory, or clinical site work if their dress is in violation of specific program requirements.

Furthermore, students' should take positive steps to exercise good hygiene and personal care in order to improve their physical and mental well-being, and overall health. If a student's dress or hygiene interferes with the learning process, the student will be referred to counseling and/or the Dean of Students. Failure to adhere to these minimum standards and guidelines could result in the denial of admission, re-enrollment, and/or removal from CFCC premises/property.

## Drug & Alcohol Policy

1. Cape Fear Community College does not differentiate among unlawful users, sellers, or pushers of drugs or alcohol. Any employee or student who unlawfully uses, possesses, sells, gives, or in any way transfers alcoholic beverages or a controlled substance is subject to disciplinary proceedings by the College, and referred for prosecution.
2. The term controlled substance means any drug listed in CFR part 1308 and other federal regulations, as well as those listed in Article V, Chapter 90 of North Carolina General Statutes. Generally, these are drugs which have a high potential for abuse such as: Marijuana, Cocaine, PCP, Heroin, and Crack among others. They also include legal drugs that are not prescribed by a licensed physician. The term alcoholic beverage includes beer, wine, whiskey and any other beverage listed in Chapter 188 of the General Statutes of North Carolina. Persons within the College community are responsible for knowing about and complying with the Cape Fear Community College Drug/Alcohol Policy.
3. Any employee or student who is convicted of violating any criminal drug or alcoholic beverage statute while in the workplace, on College premises, or as part of any College sponsored activity will be subject to disciplinary action by the College up to and including termination or expulsion and referred for prosecution. Specifically, any such person convicted of a felony, or a misdemeanor which results in an active prison sentence will, if a student, be expelled, or if an employee, be terminated from employment (subject to existing disciplinary policies applicable to state or federal law which may apply to employees). Other misdemeanors or convictions will be evaluated on a case-by-case basis and the specific penalties may range from written warnings with probationary status to enrollment expulsions and employment discharges. The College may also require the employee or student to successfully complete a drug abuse treatment program as a precondition for continued employment or enrollment. Persons charged with illegal drug/alcohol involvement may be suspended pending any legal proceedings, if it is determined by the president or designee that the persons continued presence within the College would pose a serious and immediate danger to the health or welfare of other persons within the College.
4. Each employee or student is required to inform the Executive Director of Human Resources or the Vice President for Student Services and Enrollment Management, respectively, in writing within five (5) days after a conviction of any criminal drug or alcoholic beverage control statute where such violations occurred

in the College workplace, on College premises, or as part of any College sponsored activity. A conviction means a plea or a finding of guilt (including a plea of nolo contendere) and the imposition of a sentence by a judge or jury in any federal or state court.

5. College Administrators have the right to contact parents of any student under the age of 21 who has violated a federal, state, or local law, or any rule or policy of the institution, governing the use or possession of alcohol or a controlled substance.

For those students or employees receiving or working under a federal grant, the College must notify the United States governmental agency from which a grant was made within ten (10) days of receipt of such notice from the grant employee, or otherwise after receiving actual notice of a criminal drug conviction. Appropriate disciplinary action will be taken by the College within 30 calendar days from the receipt of such notice. The law requires that all employees abide by this policy as a condition for continued employment on any federal grant.

## Legal Consequences

The illegal use of drugs and alcohol constitutes a serious crime under federal, state and local laws. Convictions may result in imprisonment, fines and/or mandatory community service. A drug conviction can disqualify a student for federal student aid. A record of a felony conviction may prevent a person from entering a chosen career. North Carolina law makes it illegal to manufacture, to sell or deliver, to possess with intent to sell or deliver, or to traffic controlled substances.

Under North Carolina law, the minimum age to purchase, possess, or consume any alcoholic beverage is 21 years old. Consumption of liquor or fortified wine by anyone 18 years old and younger is a Class 1 misdemeanor. Those 19- and 20-year-olds who drink beer or wine will be charged with a Class 3 misdemeanor. A person convicted for the first time of selling or providing alcohol to someone under 21 will receive a minimum sentence of a \$250 fine and 25 hours of community service. For a second or subsequent offense within four years, the penalty is no less than a \$500 fine and 150 hours of community service. A person convicted of aiding and abetting the sale or provision of alcohol to someone under 21 for a second or subsequent offense within four years, the sentence is no less than a \$1000 fine and 150 hours of community service. A driver may not consume any alcoholic beverages while driving. Driving after drinking with an alcohol concentration of .08 means a person is driving while impaired. No person may transport in the passenger area spirituous liquors in any container other than the manufacturer's unopened original container. Violations may result in imprisonment, fine, mandatory community service and/or loss of driving privileges. Therefore, 19- or 20-year-olds who are convicted of an alcohol violation may have a criminal history that would affect professional organizations, and employers could use such a record to reject an applicant.

## Federal Penalties and Sanctions for Illegal Possession of a Controlled Substance

- 21 U.S.C. 844(a) – 1st conviction: Up to 1 year imprisonment and fined at least \$1000 but not more than \$100,000, or both. After 1 prior drug conviction: At least 15 days in prison, not to exceed 2 years and fined at least \$2,500 but not more than \$250,000, or both. After 2 or more prior drug convictions: At least 90 days in prison, not to exceed 3 years and fined at least \$5,000 but not more than \$250,000, or both. Special sentencing provisions for possession of crack cocaine: Mandatory at least 5 years in prison, not to exceed 20 years and fined up to \$250,000, or both, if:
  - 1st conviction and the amount of crack possessed exceeds 5 grams.
  - 2nd crack conviction and the amount of crack possessed exceeds 3 grams.
  - 3rd or subsequent crack conviction and the amount of crack possessed exceeds 1 gram.

- 21 U.S.C. 853 (a)(2) and 881 (a)(7) Forfeiture of personal and real property used to possess or to facilitate possession of a controlled substance if that offense is punishable by more than 1 year imprisonment. (See special sentencing provisions re: crack)
- 21 U.S.C. 881(a)(4) Forfeiture of vehicles, boats, aircraft or any other conveyance used to transport or conceal a controlled substance.
- 21 U.S.C. 844a Civil fine of up to \$10,000.
- 21 U.S.C. 853a Denial of Federal benefits may apply, such as student loans, grants, contracts, and professional and commercial licenses.
- 18 U.S.C. 922(g) Ineligible to receive or purchase a firearm.

Miscellaneous: Revocation of certain Federal licenses and benefits, e.g. pilot licenses, public housing tenancy, etc., are vested within the authorities of individual federal agencies. Note: These are only federal penalties and sanctions. Additional state penalties and sanctions may apply.

## Health Risks

No illicit drug is free of health risks. Most carry the danger of psychological or physical addiction. All cause distortion of brain functioning and can alter thinking, perception, and memory, as well as, affect behavior. The use of intravenous drugs also presents the risk of infection with potentially deadly diseases (e.g. AIDS develop as result of damage to the respiratory, circulatory, and other body systems). Every illicit drug has the potential to result in death-whether from the body's own reaction to the abuse of drugs or from accidents caused by persons who are impaired. Although alcohol is not an illegal substance when consumed by adults over the age of 21, it presents many of the same health risks as illicit drugs. Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increases the incidence of a variety of aggressive acts, including spouse and child abuse. Moderate to high doses of alcohol cause marked impairments in higher mental functions; severely altering a person's ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described. Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life threatening. Long-term consumption of large quantities of alcohol, particularly when combined with poor nutrition, can also lead to permanent damage to vital organs such as the brain and the liver. Mothers who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and mental retardation. In addition, research indicates that children of alcoholic parents are at greater risk than other youngsters of becoming alcoholics.

## Available Resources

Many public and private resources are available for those needing assistance with drug or alcohol issues. In New Hanover County, call (910) 251-6530. In Brunswick County, call (910) 253-4485. In Pender County, call (910) 259-5476.

Another resource is the Alcohol/Drug Council of NC Information and Referral Service: (800) 688-4232. This is a drug abuse information and treatment referral line where individuals can get information and referrals to appropriate treatment facilities.

## Counseling and Rehabilitation Services to Prevent Substance Abuse

Students, faculty, and staff may seek assistance with an alcohol or drug-related problem through Cape Fear Community College. A listing of available services and referrals will be provided in the Counseling Office of Student Services and Enrollment Management.

A copy of this policy is distributed annually to students and employees.

## Zero Tolerance Statement

The College reserves the exclusive right to immediately suspend any activity that is not being conducted in exact accord with the college-approved description of the activity or any activity that substantially disrupts or materially interferes with the work, discipline, and/or educational activities of the College (e.g., by violating reasonable college rules and regulations, interrupting classes or other college programs or activities, or inciting or producing imminent violence or other lawless action on college premises) as adjudged by designated college officials. The College reserves the exclusive right to disband any student organization and/or club that; (1) conducts such inappropriate and/or unapproved activities; and (2) fails to follow the College guidelines.

Moreover, Cape Fear Community College has “zero tolerance” when it comes to drugs and alcohol consumption while representing the College during college events. Any violation will result in immediate suspension from the College for one academic year and complete withdrawal from all current classes; no exceptions. In addition, the suspended individual will have a notation placed on their permanent CFCC record.

Cape Fear Community College does not differentiate among unlawful users, sellers or pushers of drugs or alcohol. Any student who uses, possesses, sells, gives or in any way transfers alcoholic beverages or a controlled substance is subject to disciplinary proceedings by the College and referred for prosecution.

## Expressive Activity

### 1. POLICY STATEMENT

Cape Fear Community College (CFCC) upholds the freedoms of speech and expression guaranteed by the First Amendment of the U.S. Constitution for all members of the College community. The College is a place where all ideas and opinions may be expressed freely. The right to free speech and expression does not include unlawful activity that endangers the safety or well-being of any member of the College community. Further, it does not include any activity that interferes with the education of other students or the mission of the institution.

The College has the right, under appropriate circumstances, to regulate the time, place, and manner of exercising these and other constitutionally protected rights.

Providing forums for expressive activity is important because members of the College community have a right to hear, see, and experience diverse intellectual and creative inquiry. Defending that right is a fundamental obligation of the College. Controversy cannot be permitted to abridge the freedoms of speech, thought, expression or assembly.

### 2. NO ENDORSEMENT

Although expressive activity is allowed, it is not endorsed by the Board of Trustees or the College unless specifically approved as a College-sanctioned activity. No individual or group may claim approval or endorsement by the College except with prior written approval by the President or designee.

### 3. FORUMS FOR EXPRESSIVE ACTIVITY

To facilitate the free exchange of ideas, the College has established space on the College's premises that may be used by any person, including external groups and other campus guests, for expressive activities. Such activities are inclusive of literature distribution. This use may be without permission or approval from the College so long as the area has not been previously reserved or scheduled for a particular function; no sound amplification is used; and the participants do not violate other College policies. Although it is not necessary for a person using one of the designated outdoor spaces to obtain prior permission from the College, CFCC encourages such persons to contact the Office of Community Relations for scheduling purposes to minimize possible conflicts.

### **3.1 OUTDOOR LOCATIONS**

The College has set aside outdoor areas for forums, rallies, demonstrations, and other similar activities. These areas may also be reserved through the College's space reservation system (Community Relations Office). Organizations or individuals who reserve these areas have priority. The outdoor areas currently designated for expressive activity are:

**3.1.1. Downtown Campus:** The grassy area in front of the Burnett (W) Building on Water Street.

**3.1.2. North Campus:** The covered brick patio between the Eric B. McKeithan Center and the soccer field.

### **3.2 ADDITIONAL SPACES FOR EXPRESSIVE ACTIVITY**

Members of the College community and external guests may also utilize other spaces on College premises for expressive activities on a first-come-first-serve basis such as: courtyards, walkways, grassy areas, and all other areas of the College's premises (including without limitation hallways, lobbies, offices, classrooms, libraries, cafeterias, and auditoriums). Participants must not violate College policies or use sound amplification for expressive activities. Similar to the guidelines outlined in Section 3.1, CFCC encourages the College community and external guests to contact the Office of Community Relations for scheduling purposes to minimize opportunities for disruption to the College's educational and administrative functions.

**3.3** External groups and individuals also have access to those public forums that may exist on the city sidewalks, city parks, and other public non-College properties that are near or adjacent to the College campuses.

## **4. POLICY EXPECTATIONS**

At CFCC, anyone may distribute printed material, offer petitions for signature, make speeches, and hold protests or demonstrations on college premises. To ensure the safety of all members of the College community and the functional integrity of the institution's educational mission, the following points are emphasized as policy expectations:

**4.1.** All such activities must be peaceful, avoiding acts or credible threats of violence and preserving the normal operation of the College.

**4.2.** No event shall infringe upon the rights or privileges of anyone who disagrees with the content of expression conveyed.

**4.3.** No one will be permitted to harm others, damage or deface property, block access to College buildings, or disrupt classes.

**4.4.** The enforcement of these conditions will not depend in any way on the message or sponsorship of the act or event.

**4.5.** Members of the College community who engage in expressive activity shall continue to be fully responsible for their educational or occupational obligations.

If an expressive activity does not satisfy these policy expectations, disrupts College operations or creates a safety hazard, College officials will require the activity to be relocated or rescheduled. Students, employees, and or community visitors who do not abide by the established policy expectations may be subject to discipline by the College and/or law enforcement.

## **5. SPACE RESERVATION PROCEDURES**

The President or designee shall implement space reservation procedures that comply with this Policy.

### **5.1 CONSIDERATIONS FOR EVALUATING SPACE REQUESTS**

CFCC administration and the Office of Community Relations will consider the anticipated size, required accommodations, noise levels, traffic, time, relationship to nearby areas, security needs, and the evaluation of other relevant scenarios to determine (a) whether a suitable location exists and (b) whether health and safety concerns require special precautions or arrangements.

## **6. DEFINITIONS**

For the purposes of this Policy, (1) “expressive activity” means public speech protected by the First Amendment to the U.S. Constitution, which includes, by way of example and not limitation, attempts to address all or portions of the College community with the intention of expressing social, political, religious, artistic, or other views; to disseminate written materials; or to request, accept, collect donations or contributions for a non-profit purpose and (2) “College premises” means property owned, leased, managed, or otherwise controlled by the College including without limitation green space, courtyards, walkways, buildings, and vehicles.

*Last updated: Approved 1/11/17*

# **Internet and Email Use**

College-owned or operated computing resources are reserved for the educational, instructional, research, and administrative computing needs of the employees, students, and other individuals authorized by the College. The College’s computing resources include but are not limited to all College computers and hardware, access to the Internet or access to any College intranet provided through College-owned or operated computers, online and offline storage, and network and communications facilities. Access to these computing resources is a privilege, and therefore, it is essential that all users exercise responsible, ethical behavior when using these resources. Users are expected to read, understand, and comply with the College’s Acceptable Use Policy.

All students and employees are responsible for using these computing facilities in an effective, efficient, ethical, non-discriminatory, and lawful manner. The College does not attempt to articulate all requirements or unacceptable behavior by its users.

College computing resources are to be used only for educational, research, instructional purposes, or college business for which access is provided, except for personal occasional, incidental, brief use when not conflicting with work performance. College computing resources are not to be used for any unauthorized purpose, including but not limited to commercial purposes, partisan political activities, unauthorized access to remote computers, or non-college-related activities.

Users shall not create, display, transmit, or make accessible threatening, racist, sexist, obscene, offensive, annoying, or harassing language, e-mail messages, and/or material, including broadcasting unsolicited messages, sending unwanted e-mail messages, or impersonating other users. College policies against discrimination and harassment apply to communications through the College’s computing resources.



Users shall not download, reproduce, and/or distribute copyrighted or licensed materials without proper authorization from the author or creator. Additionally, users shall not publish information, messages, graphics, or photographs on any web page without the express permission of the author or creator, including college Web page content or college logo. Users will state the following disclaimer on home pages created and residing on Cape Fear Community College systems: "The views and opinions expressed on this page are strictly those of the page author and not necessarily those of Cape Fear Community College."

In accordance with North Carolina General Statute § 143-805, employees, elected officials, appointees, and students are strictly prohibited from accessing, viewing, downloading, or distributing pornography on any college-owned devices, networks, or systems.

*CFCC Board of Trustees Approved July 17, 2025*

## Tobacco Free Campus

Cape Fear Community College (CFCC) is committed to a Tobacco-Free Campus to ensure the health and safety of its students, employees and visitors of the College. CFCC recognizes the use of tobacco products on college premises is detrimental to the health and safety of its students, employees and visitors and exercises the legal authority to prohibit tobacco use pursuant to G.S. 143-599.

For the purposes of this policy, tobacco is defined as any type of tobacco product including, but not limited to, cigarettes, cigars, cigarillos, pipes, bidis, hookahs, smokeless or spit tobacco or snuff, e-cigarettes or any product simulating smoking instruments.

Use of tobacco is prohibited by students, employees, and visitors:

- In all campus buildings, facilities or property owned, maintained, or leased by Cape Fear Community College and outside areas of the campus;
- On campus grounds, facilities, or in vehicles that are the property of the college;
- In personal vehicles while on property owned or leased by Cape Fear Community College;
- At lectures, conferences, meetings, athletic, social, and cultural events held on college property;
- Except at a specific location(s) on the North Campus, Surf City and Burgaw Centers as approved by the College President due to unsafe conditions going off-campus.

The sale or free distribution of tobacco products, including merchandise, on campus or at College sponsored events is prohibited.

Student clubs/organizations are prohibited from accepting money or gifts from tobacco companies, including, but not limited to:

- Events sponsored by tobacco companies and allowing them to distribute free, reduced-price, or fully priced tobacco products (T-shirts, hats, etc.) on campus;
- All tobacco advertising, such as billboards and signs in all campus buildings, facilities or property owned or leased and operated by Cape Fear Community College.

Tobacco advertisements are prohibited in college-run publications and on grounds or facilities, including athletic facilities, owned or operated by Cape Fear Community College.

Cape Fear Community College will provide access to tobacco cessation programs on campus. These tobacco treatment programs shall be publicized regularly in student, and employee publications, by Student Services and/or Human Resources respectively.



## Implementation and Compliance

To assist with compliance of this policy, the college provides appropriate signage and other physical indicators. Violators of the policy shall be issued a verbal reminder. Employees who repeatedly violate the policy shall be referred to their supervisor, and if warranted, Human Resources. Repeated violations by employees can result in further personnel action such as verbal or written reprimand. In accordance with the CFCC student Code of Conduct, students who violate this policy shall be referred to the Dean of Students for disciplinary action. Visitors who repeatedly violate the policy shall be asked to leave campus, and if warranted, referred to Campus Safety.

*CFCC Board of Trustees approved May 18, 2023*

## Weapons Prohibition

Cape Fear Community College is concerned about the safety, welfare, and protection of all individuals on College premises. Students, employees, contractors, consultants, vendors, visitors, members of the public, and all other individuals who are on College premises or attending functions sponsored by the College are strictly prohibited from having weapons in their possession. Individuals on College premises must abide by the provisions set forth in North Carolina General Statute §14-269.2. Federal statute does not supersede the North Carolina General Statute.

## Definitions

**College Premises** - Any property in use by the College, including property that is leased, owned, used for College functions, or under the control of the College to conduct any of its courses of instruction, administrative operations, or events and activities sponsored by the College.

**Weapons** - Any object, visible or concealed, that is or could be used to threaten, intimidate, inflict serious bodily injury, or kill another individual. This includes, but is not limited to, guns, rifles, pistols, air guns, stun guns, other types of firearms, explosives, metallic knuckles, clubs, batons, knives or other blades, dangerous chemicals, or biological agents. Weapons also include any dynamite cartridge, bomb, grenade, mines, or powerful device as defined in North Carolina General Statute §14-284.1.

## Exceptions

An individual cannot knowingly possess “whether openly or concealed” any weapon of any kind on Cape Fear Community College property, with the following exceptions:

- A weapon or assimilated weapon used solely for instructional or ceremonial purposes in a curriculum (i.e.; Cosmetology, Marine, Culinary, etc.), entertainment purposes (i.e., Wilson Center performances), continuing education course, or course delivered or sponsored by the College, or an event officially sponsored and sanctioned by the College.
- Items or toolkits possessed by college employees and/or contractors for the purpose of performing regular job functions, including but not limited to facilities maintenance and/or repair of equipment. An individual exempted by North Carolina General Statutes §14-269.2, §14-415.10, §14-415.24-26.
- North Carolina General Statute §14-269.2(k) allows for the following exception for individuals with a valid concealed handgun permit. The exception is limited, and all of the following conditions must be met:
  - o The permit holder has a handgun in a closed compartment within their locked vehicle or within a locked container securely affixed to the permit holder’s vehicle and only unlocks the vehicle to enter and/or exit while the handgun remains securely locked within;
  - o The permit holder is carrying a concealed handgun on their person while remaining in their locked vehicle;

o The permit holder remains within their locked vehicle and removes the handgun from concealment only for the amount of time reasonably necessary to move the handgun from concealment on the person to a locked container within the vehicle or reverse the previous action.

- An individual registered under North Carolina General Statute Chapter 74C as an armed armored car service guard, armed courier, or armed security guard when performing their duties.

## Violations

- Individuals who possess weapons in violation of this policy may be subject to criminal penalties, as established in North Carolina General Statute §14-269.2.
- Individuals who reasonably suspect this policy is being or has been violated must immediately report the violation to Campus Security.
- Individuals who violate this policy will be subject to disciplinary action, up to and including termination of employment.
- Students who violate this policy may be subject to disciplinary action up to and including suspension or expulsion.
- Guests, visitors, and/or contractors found in violation of this policy may be permanently trespassed or prohibited from returning to campus.

*CFCC Board of Trustees approved November 16, 2023*

## Children on Campus Policy

Children should not be brought into the workplace, nor can they be left unattended on campus in any area, including administrative offices, waiting areas, the library, employee lounge areas, or parking lots. College employees are expected to be responsible adults and contact the Office of Safety & Security when noticing unattended or disruptive children. *Employee Handbook*

Children who are not registered for a class may not be present in the classroom, lab, or studio during classroom instruction.

Children cannot be left unattended on campus, including the Learning Resource Center, the cafeteria, lounge areas, registration sites, administrative offices, and parking lots. College personnel will expect responsible adults to remove unattended or disruptive children immediately.

Failure to comply with this policy will lead to disciplinary action as outlined in the College Catalog & Student Handbook, and Employee Handbook. Visitors violating this policy will be notified of the violation, and continued violation will result in the individual being asked to leave campus. *Employee Handbook*

## Chosen Name & Identity Policy

Cape Fear Community College (CFCC) acknowledges and supports personal expression in hopes to provide a safe and inclusive learning and working environment for its students, employees and visitors of the college. A student or employee may request to identify by a chosen name (sometimes called a preferred name) instead of their legal name. Where appropriate, the chosen name will be recorded and a good faith effort will be made by the college to utilize when made available by the individual. Due to certain legalities, only the first name may be designated for the chosen name, and the last name must remain the individual's legal last name. As such, all individuals should routinely identify themselves with their chosen name to ensure consistent records, to streamline processes, and offer name recognition as accurately as possible.

### Definitions:

**Chosen Name** – A chosen name is an alternative to the individual’s legal name, as designated by the individual, instead of using their legal name, whenever reasonably possible.

**Legal Name** – A legal name is the name a person uses for official governmental documents, such as a license, passport, social security card, and tax forms; and within the requirements of the college’s information systems, an official transcript.

It should be understood that even when a chosen name has been entered in various college information systems, the legal name may be required for college business, or to satisfy legal needs. CFCC cannot guarantee that the chosen name will display in all college communications, applications, information systems, databases, and processes.

Specific examples that may require use of a legal name include, but are not limited to:

- Financial, medical, and law enforcement documents
- CFCC Student ID Cards
- Official transcripts
- W-4 forms, I-9 forms, and payroll documents
- Visa/immigration documents
- Employment-related documents and personnel files
- Background check documents
- Insurance documents
- Financial Aid records
- Student account, billing, and/or cashier’s records
- Federal reporting
- Inability for college information systems, learning management systems, databases, or processes to display

Under the Family Educational Rights and Privacy Act (FERPA) a student’s chosen name or legal may be disclosed to the public as “directory information” per the college’s FERPA policy, unless the student chooses to opt out by contacting the Registrar’s office.

CFCC reserves the right to refuse a chosen name if it is deemed inappropriate, includes offensive or obscene language, and/or interferes with college business or the mission of the college. Chosen names cannot be used for misrepresentations, avoiding legal obligations, or in any manner that violates CFCC policies or federal, state, or local laws.

*CFCC Board of Trustees approved July 20, 2023*

## Communicable Disease Policy

As required by the State Board of Community Colleges, 1C SBCCC 200.94, CFCC is committed to providing a safe and healthy learning environment. The purpose of this policy is to prevent and protect all students, faculty, staff and visitors from the spread of a communicable disease, while also prohibiting discrimination against persons with a reportable communicable disease.

A communicable disease is any condition that may be transmitted directly, or indirectly, to a person from an infected person whether via airborne or by physical contact. As defined, a communicable disease is an illness due to a specific infectious agent or its toxic products that arises through transmission of that agent or its products from an infected person, animal or reservoir, to a susceptible host, through an intermediate plant or animal host, vector, or the inanimate environment (Dictionary of Epidemiology, 2001). By definition and determination by the Centers

for Disease Control and Prevention, and the NC Department of Health and Human Services - Epidemiology (NCDHHS), any reportable communicable disease or condition must be evaluated and assessed by a medical physician to protect the health and safety of the College.

Students who suspect, or have reason to believe, that they have a communicable disease are expected to seek expert medical advice about their health circumstances and are obligated, legally and ethically, to conduct themselves responsibly for the protection of themselves and others. Students who know that they are infected with a communicable disease are encouraged to contact the Dean of Student Affairs, so that the College can assist in the appropriate response to their health and/or educational needs and can make any reasonable accommodations, if necessary. As a general rule, individuals that have been diagnosed with a reportable communicable disease and have been cleared by a physician, and provide appropriate documentation, will be permitted to attend classes, access facilities, services, programs or activities provided by the College. Additionally, all inquiries will be handled on a case-by-case basis to ensure the appropriate measures have been executed.

Students of the College who may be infected with a reportable communicable disease, as defined by the NCDHHS, shall not be excluded from enrollment or restricted in their access to College facilities, services, programs, or activities, unless it has been determined by a healthcare professional and/or the NCDHHS that exclusion or restriction is reasonably necessary because the infected individual poses a significant risk of substantial harm to the health or safety of him/herself or others at the College that cannot be eliminated or reduced through other reasonable accommodations.

Specific health conditions and medical information will remain confidential, unless authorized by the individual in writing to be released, except when appropriate health care providers and/or College officials on a need to know basis and required by local, state and federal law to prevent and/or protect the surrounding community.

Please refer to the Excused Absences due to Public Health Emergencies policy in this student handbook for further guidance regarding these procedures.

## Use of Personal Protective Equipment

Cape Fear Community College is committed to the safety of our students, faculty and staff. Accordingly, the use of personal protective equipment (PPE) may be required for students and visitors to campus in certain areas or within classroom or laboratory spaces as directed by instructors and/or external requirements such as those set by the American National Standards Institute (ANSI), the Occupational Safety and Health Administration (OSHA), and/or the Centers for Disease Control (CDC). Notification will be provided on our website and other media when PPE is required in CFCC buildings and public spaces due to a public health emergency. PPE requirements for specific classes and instructional spaces will be listed on class syllabi.

*CFCC Board of Trustees approved May 18, 2023*

## Complaint & Grievance Procedures

As a matter of practice, Cape Fear Community College subscribes to the philosophy that student complaints are best resolved on an informal basis. When a student has a complaint, he/she should attempt to resolve concerns with college personnel having responsibilities directly at the source of the complaint. When informal procedures do not resolve concerns, written student complaints should be sent to the Dean of Student Affairs (contact information below) who will determine the appropriate college personnel to review the complaint. The student should receive written acknowledgment of receipt of the complaint from the Dean of Student Affairs or designee within 24 hours.

The complaint will be reviewed and a collaborative effort will be made to resolve the complaint within twenty (20) working days of receipt of the complaint. The student will receive notification of the resolution of the complaint, or of the College's position on the complaint.

CFCC also provides its students, employees, and guests with an [online Grievance Form](#) for reporting alleged incidents of harassment, discrimination, sexual misconduct, and/or breaches of the CFCC Code of Conduct.

If you have a student complaint/grievance about Cape Fear Community College, you should attempt to resolve the complaint through the above CFCC Grievance Procedure. Should you have questions regarding the complaint procedure, please get in touch with Dean of student affairs and Title IX coordinator:

**Robby McGee**

[910-362-7191](tel:910-362-7191)

[rhmcgee60@cfcc.edu](mailto:rhmcgee60@cfcc.edu)

411 N. Front St.

Wilmington, NC 28401

| Agency                                      | Address                                                                                                                                                | Phone Number                                | Website                                                                                                                                           | Contact                                                                                                        | Complain Process Informat                |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------|
| SACSCOC                                     | 1866 Southern Lane,<br>Decatur, GA 30033                                                                                                               | <a href="tel:404-679-4500">404-679-4500</a> | <a href="http://sacscoc.org/">sacscoc.org/</a>                                                                                                    | <a href="http://sacscoc.org/contact-us/">sacscoc.org/contact-us/</a>                                           | <a href="#">SACSCOC Complaint Policy</a> |
| NC Post-Secondary Education Complaints Unit | 223 S. West Street, Suite 1800<br>Raleigh, NC 27603                                                                                                    | <a href="tel:919-962-4550">919-962-4550</a> | <a href="https://www.northcarolina.edu/post-secondary-education-complaints">https://www.northcarolina.edu/post-secondary-education-complaints</a> |                                                                                                                | <a href="#">Student Complaint Policy</a> |
| SARA NC                                     | SARA North Carolina Director,<br>North Carolina State Education Assistance Authority<br>c/o SARA North Carolina<br>P.O. Box 41349<br>Raleigh, NC 27629 | <a href="tel:855-727-2162">855-727-2162</a> | <a href="http://saranc.org">saranc.org</a>                                                                                                        | <a href="mailto:complaint@saranc.org">complaint@saranc.org</a><br><a href="#">State Portal Entity Contacts</a> | <a href="#">SARA-NC Complaint Proc</a>   |

#### NORTH CAROLINA COMPREHENSIVE ARTICULATION AGREEMENT TRANSFER CREDIT APPEAL PROCEDURE

If a student from a North Carolina Community College System (NCCCS) college believes the terms of the Comprehensive Articulation Agreement (CAA) have not been honored by a University of North Carolina (UNC) institution to which the student has been admitted, the student may invoke the CAA Transfer Credit Appeal Procedure (see Appendix E of the CAA).

For Student Complaint information by state, please see our website: <https://cfcc.edu/wp-content/uploads/2025/02/Student-Complaint-Information-by-state.pdf>

The above Student Complaint and Grievance Procedure can also be found on our website: <https://cfcc.edu/about/student-complaint-grievance/>

Public Complaint Procedures can be found on our website: <https://cfcc.edu/about/statements-and-policies/>

## Emergency Preparedness

Cape Fear Community College considers the safety of its students, employees, and guests of the utmost importance. We continually work to measure, evaluate, and improve safety at all campus locations. CFCC urges everyone to be individually prepared in the event of an emergency.

Small preparations, like making an emergency kit, creating an emergency plan, and practicing emergency response procedures, help to not only keep individual Sea Devils safe but also contribute to the safety and well-being of everyone at Cape Fear Community College.

### Be Ready

Students, make sure your cell phone number is correct in your Self Service profile. All students are automatically signed up for CFCC Alerts. This way, the College can notify you in the event of an emergency.

New Hanover County maintains a [website for emergency resources](https://emergency.nhcgov.com/) at <https://emergency.nhcgov.com/>.

### Stay Informed

In the event of a weather emergency, CFCC closely monitors conditions so we can make decisions about closings or delays. Any closing or delay will be announced via text message, on our website, and on our social media accounts. We also announce delays and closures through local news stations.

### Know How to Report an Emergency

**If you see an emergency happening, call 911.** Please reference the chart below for other important safety contacts.

| NAME                                   | CONTACT      |
|----------------------------------------|--------------|
| EMERGENCY                              | 911          |
| Downtown Campus Safety - Non-Emergency | 910-362-7855 |
| North Campus Safety - Non-Emergency    | 910-362-7580 |
| Burgaw Center Safety Office            | 910-800-1666 |
| Alston W. Burke Center Safety Office   | 910-362-7931 |

**Annual Security Report, Clery Report, Incident Report Forms and Crime Tip submissions can be found at CFCC's Campus Safety [webpage](#).**

## Evacuation Policy

The following procedures are to be followed in the event that an emergency evacuation becomes necessary in any building or classroom owned and/or operated by Cape Fear Community College:

#### Purpose

The purpose of the Evacuation Policy is to ensure that employees and students are prepared and able to respond to an emergency by the evacuation of College buildings during emergency conditions. The goal of this plan is to emphasize personal safety during an efficient evacuation.

#### Definition

This plan identifies an emergency as an “unplanned event” that can cause physical injury to the building occupants. Examples include but are not limited to fires, floods, and bomb threats.

#### Evacuation Procedures



The following procedures are to be followed in the event that an emergency evacuation becomes necessary in any building or classroom owned and/or operated by Cape Fear Community College:

- When a fire alarm sounds and/or when instructed by Cape Fear Community College emergency alerts (i.e., email, text, campus security, or sheriff deputies), the entire building will evacuate by designated routes. An evacuation diagram is located on each floor and in each room of every building. The primary route for evacuating a building is indicated by a solid red line. If, for any reason, the primary route is blocked, use the secondary escape route indicated by a broken red line on the diagram. All occupants will follow this procedure unless otherwise directed by law enforcement or security officials.
- Occupants will exit the building and congregate away from the doors, allowing clear access for Emergency Responders. Everyone must exit the building when the fire alarm sounds. IT IS NOT AN OPTION TO REMAIN IN THE BUILDING. Treat all alarms as the real thing. Students should take all personal belongings with them when evacuating the building.
- Occupants will wait until an “all clear” signal has been sounded/given.
- During an evacuation, entry to the facility will not be permitted until an “all clear” signal has been sounded/given.
- If an emergency evacuation occurs, the Office of Safety & Security and the Campus Switchboard should be notified immediately. The Office of Safety & Security Dispatcher will contact the Fire Department and other necessary emergency services, and the Switchboard will notify the Department of Student Accessibility Services.
- Employees will leave their work area and assist students and guests in exiting the building(s).
- Contracted security services will conduct a “sweep” of the building(s) and assist people in exiting. They will also assist the Office of Safety & Security in verifying that all occupants have left the building(s).
- Cape Fear Community College Maintenance Personnel will respond to the alarm panel to announce the location of the activation. Once the emergency has been resolved, the Fire Department will direct Cape Fear Community College Maintenance Staff to give the “all clear” signal, and occupants will be allowed to re-enter the building.

In the event that the evacuation emergency lasts for an extended period of time, occupants will be directed to pre-designated staging areas.

### **Evacuation Plan for the Disabled**

At the time of evacuation, Cape Fear Community College employees will take reasonable measures to assist persons with disabilities. This includes persons with mobility, visual, hearing, speech, and cognitive impairments. Persons with disabilities should be escorted to the “Areas of Rescue;” otherwise, they should be escorted out of the building. For more information, please see the Student Accessibility Services webpage: <https://cfcc.edu/student-accessibility-services/evacuation-procedures/>

## **Non-Discrimination Policy**

Cape Fear Community College is fully committed to the principles and practice of equal and inclusive employment and educational opportunities. Pursuant to federal and state laws, the College does not discriminate against applicants, students, employees or visitors in any program or activity provided on the basis of race, color, national origin, sex (including pregnancy and pregnancy-related conditions) gender, religion, age, veteran status, or disability.

To comply, and under the guidance of, Title IX of the Educational Amendments of 1972, Americans with Disabilities Act of 1990, Section 504 of the Rehabilitation Act of 1973, Title VI & VII of the Civil Rights Act of 1964, applicable state and federal statutes, and CFCC policies, this statement applies to all students, employees, and visitors of Cape Fear Community College.

Furthermore, the Dean of Student Affairs serves as CFCC's Title IX Coordinator and has primary responsibility for coordinating the College's efforts to comply with and carry out its responsibilities under Title IX, which prohibits sex discrimination in all the operations of the College, as well as any other protected status as delineated above and retaliation for the purpose of interfering with any right or privilege.

Note: Compliant with the following local, state, and federal laws:

**OCR Audit, Title IX/Final Rule** (sex/gender), **Title VI** (race, color, national origin - recipient of financial aid), **Title VII** (race, color, religion, sex (includes pregnancy, sexual orientation, gender identity, national origin - employment law), **ADEA** (age), **USERA/VEVRAA** (veteran status).

*CFCC Board of Trustees approved September 26, 2024*

## Right to Know Act

Anyone wishing to obtain information about first-time students' rate of persistence and/or graduation rates should contact the Office of the Director of Institutional Effectiveness and Planning.

Cape Fear Community College measures and reports retention, graduation, and transfer rates, along with seven other institutional performance standards, on an annual basis and in accordance with definitions and standards established by the North Carolina State Board of Community Colleges. Establishment of these common performance measures of institutional effectiveness, along with definitions and standards for each, is the result of a mandate by the N.C. General Assembly to review past performance and define standards of performance to ensure the quality and effectiveness of programs and services in all of the 58 community colleges. Please refer to CFCC's performance report on these measures. Historical data and additional details may be viewed on the [Institutional Effectiveness, Planning, and Compliance webpage](#).

## Title IX Policy

The Dean of Student Affairs serves as CFCC's Title IX Coordinator and has primary responsibility for coordinating the College's efforts to comply with and carry out its responsibilities under Title IX, which prohibits sex discrimination in all the operations of the College, as well as any other protected status as delineated above and retaliation for the purpose of interfering with any right or privilege.

## DEFINITIONS

The following definitions shall apply to this policy and shall be collectively referred to herein as "Discrimination". The definitions are not intended to operate as speech codes, promote content and viewpoint discrimination or suppress individual viewpoints in the academic setting. Indeed, just because a student's or employee's speech or expression is deemed offensive by others, it does not mean it constitutes discrimination or harassment. In applying these definitions, College administrators shall view the speech or expression in its context and totality.

**Discrimination:** any act or failure to act that unreasonably differentiates treatment of others based solely on their protected status and is sufficiently serious, based on the perspective of a reasonable person, to unreasonably interfere with or limit the ability of that individual to participate in, access or benefit from the College's programs and activities. Discrimination may be intentional or unintentional.

**Harassment:** a type of discrimination that happens when verbal, physical, electronic or other behavior based on a person's protected status interferes with a person's participation in the College's programs and activities and it either creates an environment that a reasonable person would find hostile, intimidated or abusive or where submitting to or rejecting the conduct is used as the basis for decisions that affect the person's participation in

the College's programs and activities. Harassment may include, but is not limited to: threatening or intimidating conduct directed at another because of the individual's protected status; ethnic slurs, negative stereotypes and hostile acts based on an individual's protected status.

**Protected Status:** race, color, national origin, sex, religion, pregnancy, disability, genetic information, age, political affiliation or veterans' status.

**Standard of Evidence** - the College uses the "preponderance of evidence standard", or "more likely than not", as the standard for proof of whether a violation occurred. In the student due process hearing and employee grievance process, legal terms like "guilt, "innocence" and "burden of proof" are not applicable. Student and employee due process hearings are conducted to take into account the totality of all evidence available from all relevant sources. The College will find the alleged perpetrator, or respondent, either "responsible" or "not responsible" for violating College policies and procedures.

If the aforementioned conduct is viewed by a reasonable person and/or complainant to be so "**severe, pervasive, and objectively offensive**" that it effectively denies a person equal access to CFCC's educational programs or activities, it will then be determined by the Title IX Coordinator whether the behavior constitutes "Sexual Harassment".

For formal complaints related to allegations of sexual harassment, including *quid pro quo*, sexual assault, dating violence, domestic violence, and/or stalking, please refer to "**CFCC's Sexual Harassment Policy and Procedures**".

## Statements of Prohibition

**Prohibition of Retaliation.** The College strictly prohibits punishing students or employees for asserting their rights to be free from Discrimination. Retaliation against any person participating in connection with a complaint of Discrimination is strictly prohibited. Reports of retaliation will be addressed through this procedure and/or other applicable College procedures. Retaliation includes, but is not limited to, any form of intimidation, punitive actions from authority figures or peers, reprisal (acts of vengeance) or harassment. Retaliation is a serious violation and should be reported immediately. The College will take appropriate disciplinary action against any employee or student found to have retaliated against another.

**Prohibition of Providing False Information.** Any individual who knowingly files a false report or complaint, who knowingly provides false information to College officials, or who intentionally misleads College officials involved in the investigation or resolution of a complaint may be subject to disciplinary action including, but not limited to expulsion or employment termination. The College recognizes that an allegation made in good faith will not be considered false when the evidence does not confirm the allegation(s) of Discrimination.

## Requesting Accommodations

Students and employees with disabilities wishing to make a request for reasonable accommodations, auxiliary communication aids or services, or materials in alternative accessible formats should contact the College's Student Accessibility Services or Human Resources. Information provided by individuals is voluntary and strict confidentiality is maintained. All requests for accommodations will be considered following the appropriate state and federal laws. The College will also provide reasonable accommodation of an individual's religious beliefs/practices provided such expression/practice does not create a hostile environment for other students and employees and/or the accommodation does not cause an undue hardship for the College.

## Reporting Options

Any student wishing to make a report relating to Discrimination may do so by reporting the concern to the Dean of Student Affairs. For Discrimination incidents between students and employees, the Dean of Student Affairs will work in partnership with the Executive Director of Human Resources, or designee, to investigate and resolve the allegations.

Any employee wishing to make a report relating to Discrimination may do so by reporting the concern to CFCC Human Resources.

## Initial Investigation

As these Procedures apply to both students and employees as either the Complainant or the Respondent, the administrator receiving the incident report will determine if the case should be handled by: 1) the Dean of Student Affairs, or designee (student/student); 2) the Executive Director of Human Resources, or designee (employee/employee); or 3) both (student/employee). For incidents involving students and employees, the College will utilize due process and grievance procedures as applicable.

- Individuals ("Complainants") are urged to do so in writing as soon as possible, but no later than thirty (30) days after disclosure or discovery of the facts giving rise to the complaint. Complaints submitted after the thirty (30) day period will still be investigated, however, Complainants should recognize that delays in reporting may significantly impair the ability of College officials to investigate and respond to such complaints. As stated any complaint involving a student and employee, the Dean of Student Affairs will collaborate with the College's Executive Director of Human Resources, or designee. During the course of the investigation, consultation may be required with other relevant College administrators and the College attorney, if appropriate.
- During the investigation, and if applicable to the complaint, the Dean of Student Affairs and/or the Vice President of Human Resources, shall meet with the Complainant and the alleged Respondent separately and give each party an equal opportunity to provide evidence, including potential witnesses. Both parties will be given access to any information provided by the other in accordance with any state or federal confidentiality laws.
- During the investigation process, the Dean of Student Affairs and/or the Vice President of Human Resources, may implement temporary measures in order to facilitate an efficient and thorough investigation process as well as to protect the rights of all parties involved. The temporary actions or supportive measures include, but are not limited to: reassignment of class schedules or work assignments; temporary removal from campus; "no contact" agreements; if such action is the best interest of the College and parties involved.
- As appropriate, a confidential file regarding the complaint shall be maintained by the Dean of Student Affairs and/or the Vice President of Human Resources. To the extent possible, the College will keep all information relating to the complaint and investigations confidential; however, to maintain compliance with the Clery Act, both parties will be informed of the outcome of any institutional proceedings under these procedures.
- The Dean of Student Affairs and/or the Vice President of Human Resources shall make every effort to conclude the investigation as soon as possible, but no later than thirty (30) calendar days. If the nature of the investigation requires additional time, all parties involved will be notified of this extension.
- Complainants will be notified of available counseling services and other interim supportive or protective as needed.

## Recommendation and Appeal

After the investigation is complete, the Dean of Student Affairs and/or the Vice President of Human Resources, will put forward a recommendation of finding, based on the standard of evidence, and sanction(s) to both the Complainant and Respondent. If the recommendation is accepted by both parties involved, the recommendation and sanction(s) will become effective. The Dean of Student Affairs and/or the Vice President of Human Resources will submit to each party a final outcome letter that will include, but not limited to, the following:

- Determination if the respondent is responsible, or not responsible, for violating these Policies and Procedures;
- Sanction(s) if appropriate;
- Monitoring of academic or work schedules if needed between the involved;
- Short-term College counseling services available to each party.

If the Dean of Student Affairs and/or the Vice President of Human Resources recommendations are not accepted by either the Complainant or the Respondent, both may appeal and request a formal hearing. If the Dean of Student Affairs and/or the Vice President of Human Resources recommends sanctions that s/he cannot impose (i.e., suspension, expulsion/termination), the matter shall automatically be set for a hearing. The Complainant and the Respondent are allowed to be accompanied by an advocate. The advocate may not present on behalf of either party unless otherwise instructed to do so by the hearing officer. If the Complainant or the Respondent chooses to have an advocate who is an attorney, notification must be provided to the hearing officer at least three (3) College business days prior to the hearing date. In this case, the College Attorney will also be present.

## Sanctions

The following sanctions may be imposed for those who have violated these Policy and Procedures herein.

### For Students

- Conduct Warning (verbal or written);
- Conduct Probation;
- Administrative Withdrawal / Interim Conduct Suspension;
- Required Counseling;
- "No Contact Agreement";
- Conduct Suspension;
- Expulsion;
- Other consequences as deemed appropriate.

### For Employees

- Verbal or Written Warning;
- Performance Improvement Plan;
- Required Counseling;
- Required Training or Education;
- Demotion;
- Interim Suspension;
- Suspension, with or without pay;
- Termination;
- Other consequences as deemed appropriate.

Any student complaint or inquiries concerning discrimination or harassment may be reported to the Dean of Student Affairs. For more information, please refer to the CFCC Catalog & Student Handbook, Complaint & Grievance Procedures.

Any employee complaint or inquiries concerning discrimination or harassment may be reported to CFCC Human Resources. For more information, please refer to the [CFCC Employee Handbook](#).

*CFCC Board of Trustees, Approved, March 25, 2021*

## Title IX Sexual Harassment Policy & Procedures

Cape Fear Community College (CFCC) is committed to providing a safe learning and working environment that promotes respect, responsibility, and accountability that is free of sexual misconduct, including discrimination, harassment, and/or sexual harassment. All forms violate an individual's fundamental right to CFCC's educational programs and activities.

In compliance with, and as required by Title IX of the Education Amendments Act of 1972: "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance."

Title IX is a comprehensive federal law that prohibits discrimination on the basis of sex in any federally funded education program or activity. Under Title IX, "sexual harassment" includes *quid pro quo* harassment; sexual assault, dating or domestic violence; and stalking (collectively referred to as "sexual harassment"). If the unwelcome conduct is viewed by a reasonable person and/or complainant to be so "severe, pervasive, and objectively offensive" that it effectively denies a person equal access to CFCC's educational programs or activities, then it will be determined by the Title IX Coordinator whether the behavior constitutes as "Sexual Harassment" under CFCC's Sexual Harassment Policy and Procedures. The College's Title IX Coordinator has oversight responsibility for handling sexual harassment complaints and for identifying and addressing any patterns and/or systemic problems involving sexual discrimination or harassment.

CFCC considers discrimination and sexual harassment in all its forms to be a serious offense (Title 20 U.S.C. Sections 1681-1688). CFCC has a responsibility to ensure compliance by demonstrating that our educational programs and other activities are operated in a manner consistent with Title IX mandates, regulations and provisions. In response, Cape Fear Community College offers training on awareness and prevention efforts on an annual basis to its student body, and employees alike, to ensure proper guidance and ultimately to provide a safe and healthy learning and working environment.

All allegations involving sexual harassment should be directed to the College's Title IX Coordinator and addressed under these procedures. For complaints related to allegations of discrimination and harassment, not related to sexual harassment, please refer to CFCC's **Non-Discrimination and Harassment Policy and Procedures**.

### I. Definitions

The following definitions shall apply to this procedure. The definitions are not intended to operate as speech codes, promote content and viewpoint discrimination or suppress individual viewpoints in the academic setting. Indeed, just because a student's speech or expression is deemed offensive by others does not mean it constitutes discrimination or harassment. In applying these definitions, College administrators shall view the speech or expression in its context and totality. In the student due process hearing and employee grievance process, legal terms like "guilt," "innocence" and "burden of proof" are not applicable. Student and employee due process hearings are conducted to take into account the totality of all evidence available from all relevant sources. Under these proceedings, the college will adjudicate and resolve complaints either through informal resolution, or determine

and initiate a formal complaint. The College will find the alleged perpetrator, or respondent, either “responsible” or “not responsible” for violating College policies and procedures. The College will apply the “preponderance of evidence standard”, or “more likely than not”, as the standard for proof of whether a violation occurred.

**A. Actual Knowledge** - “notice” of sexual harassment or allegations of sexual harassment to the CFCC Title IX Coordinator. Actual knowledge, or notice, is not met or satisfied, when only the individual with actual knowledge is the Respondent.

**B. Advisor** - a person chosen by a party or appointed by the institution to accompany the party to meetings related to the resolution process, to advise the party on that process, and to conduct cross-examination for the party at the hearing, if any.

**C. Complainant** - an individual who is alleged to be the victim of conduct that could constitute sexual harassment.

**D. Consent** - explicit approval to engage in sexual activity demonstrated by clear actions or words. This decision must be made freely and actively by all participants. Non-verbal communication, silence, passivity or lack of active resistance does not imply consent. In addition, previous participation in sexual activity does not indicate current consent to participate and consent to one form of sexual activity does not imply consent to other forms of sexual activity. Consent has not been obtained in situations where the individual: i) is forced, pressured, manipulated or has reasonable fear that they will be injured if they do not submit to the act; ii) is incapable of giving consent or is prevented from resisting due to physical or mental incapacity (including being under the influence of drugs or alcohol); or iii) has a mental or physical disability which inhibits his/her ability to give consent to sexual activity.

**E. Dating Violence** - as defined in 34 U.S.C. § 12291(a)(10): violence committed by a person—(A) who is or has been in a social relationship of a romantic or intimate nature with the victim; and (B) where the existence of such a relationship shall be determined based on a consideration of the following factors: (i) the length of the relationship; (ii) the type of relationship; and (iii) the frequency of interaction between the persons involved in the relationship;

**F. Day** - a business day, unless otherwise specified.

**G. Decision-maker (Hearing Officer)** - those who have decision-making and sanctioning authority within the College’s formal grievance process.

**H. Domestic Violence** - as defined in 34 U.S.C. § 12291(a)(8): felony or misdemeanor crimes of violence committed by a current or former spouse or intimate partner of the victim, by a person with whom the victim shares a child in common, by a person who is cohabitating with or has cohabitated with the victim as a spouse or intimate partner, by a person similarly situated to a spouse of the victim under the domestic or family violence laws of the jurisdiction receiving grant monies, or by any other person against an adult or youth victim who is protected from that person’s acts under the domestic or family violence laws of the jurisdiction; or

**I. Education Program or Activity** - for purposes of these Policy and Procedures, this means any locations, events, or circumstances over which the College exercised substantial control over both the Respondent(s) and the context in which the alleged sexual harassment occurs. It also means any building owned or controlled by a student organization that is officially recognized by the College.

**J. FERPA** - is the Family Educational Rights and Privacy Act, a federal statute codified at 20 U.S.C. § 1232g, with implementing regulations at 34 C.F.R. § 99. FERPA protects the privacy of student Education Records. FERPA grants to eligible students the right to access, inspect, and review Education Records, the right to challenge the content of Education Records, and the right to consent to the disclosure of Education Records. “Education Record” has the meaning assigned to it under FERPA.



**K. Formal Complaint** - a written document filed by a Complainant, or signed by the Title IX Coordinator, alleging sexual harassment against a Respondent and requesting the College to investigate the allegation(s). A formal complaint initiates a formal grievance process in which parties are entitled to due process protections.

**L. Informal Resolution** - a resolution reached regarding an allegation of sexual discrimination or harassment without the filing of a Formal Complaint, or when the Title IX Coordinator determines that the alleged complaint would not constitute as Sexual Harassment as defined in this Policy and/or Title IX. Informal Resolution may include mediation, dialogue, counseling, restorative justice, or other models of alternative dispute resolution. Informal Resolution cannot be used for a student's allegation of sexual harassment against a College employee.

**M. Investigator** - the person, or persons, charged by the College with gathering facts about an alleged violation of this policy, assessing relevance and credibility, reviewing the corroborating evidence, and compiling this information into an investigation report.

**N. Notice** - an employee, student, or third-party whom informs (see "Reporting to College Officials") the Title IX Coordinator of an alleged occurrence of discrimination or sexual harassment as defined herein.

**O. Respondent** - an individual who has been reported to be the perpetrator of conduct that could constitute sexual harassment.

**P. Retaliation** - to intimidate, threaten, coerce, or discriminate against any individual for the purpose of interfering with any right or privilege secured by Title IX or because the individual has made a report or complaint, testified, assisted, participated, or refused to participate in any manner in an investigation, proceeding, or hearing under these Procedures.

**Q. Sexual Assault** - as defined in 20 U.S.C. § 1092(f)(6)(A)(v): an offense classified as a forcible or non-forcible sex offense under the uniform crime reporting system of the Federal Bureau of Investigation (FBI) or an offense that meets the definition of rape, fondling, incest, or statutory rape as used in the FBI's Uniform Crime Reporting system.

**R. Sexual Harassment** - *quid pro quo* harassment; sexual assault, dating violence, domestic violence, or stalking; unwelcome conduct that a reasonable person would find so "severe, pervasive, and objectively offensive" that it effectively denies a person equal access to the College's education program or activity, including conduct based on sex stereotyping; or any instance of sexual assault, dating violence, domestic violence, or stalking. "Quid pro quo" harassment is a person having power or authority over another and conditioning an educational or employment benefit or service or access to receiving the educational or employment benefit or service upon a person's participation in unwelcome sexual conduct.

**S. Stalking** - as defined in 34 U.S.C. § 12291(a)(30): engaging in a course of conduct directed at a specific person that would cause a reasonable person to (A) fear for their safety or the safety of others; or (B) suffer substantial emotional distress.

**T. Standard of Evidence** - the college will apply the "preponderance of evidence standard", or "more likely than not", as the standard for proof of whether a violation of this policy has occurred. In the student due process hearing and employee grievance process, legal terms like "guilt", "innocence" and "burden of proof" are not applicable. Student and employee due process hearings are conducted to take into account the totality of all evidence available from all relevant sources. The College will find the Respondent either "responsible" or "not responsible" for violating these Procedures.

**U. Supportive Measures** - individualized services reasonably available that are non-punitive, non-disciplinary, and not unreasonably burdensome to the other party that are designed to ensure equal educational access, protect safety, or deter sexual harassment. Supportive measures may include, but are not limited to, counseling, extensions

of deadlines or other course-related adjustments, modifications of work or class schedules, campus escort services, mutual “no contact agreements” between the involved parties, leaves of absences, increased security and monitoring of certain areas of the College, and other actions deemed appropriate by the Title IX Coordinator.

**V. Title IX Coordinator** - for purposes of these procedures, the Title IX Coordinator is the CFCC Dean of Student Affairs. The Title IX Coordinator will oversee and coordinate the College’s efforts related to the intake, investigation, resolution, and implementation of supportive measures to stop, remediate, and prevent discrimination, harassment, and sexual harassment prohibited under this policy. The Title IX Coordinator acts with independence and authority free from bias and conflicts of interest. The Title IX Coordinator oversees all resolutions under this policy and these procedures.

## II. Scope and Applicability

This policy and procedures only apply to allegations of sexual harassment made by a student, employee (currently employed) or third party that currently participates in CFCC educational programs or activities located within the United States, and of which the College has actual knowledge. A “student” is defined as an individual that is admitted, registered and/or enrolled and who maintains an ongoing relationship with the College. CFCC will adjudicate all other allegations or inappropriate conduct that do not meet the Title IX definition of sexual harassment, through its appropriate College disciplinary and/or grievance proceedings.

## III. Reporting

### A. Reporting to Local Law Enforcement

Individuals may report sexual harassment directly to local law enforcement agencies by dialing 911. Individuals who make a criminal allegation may also choose to pursue the College’s grievance procedure simultaneously. A criminal investigation into the matter does not release the College from its obligation to conduct its own investigation (nor is a criminal investigation determinative of whether sexual harassment has occurred). However, the College’s investigation may be delayed temporarily while the criminal investigators are gathering evidence. In the event of such a delay, the College must make available supportive measures when necessary to protect the alleged Complainant and/or the College community.

Individuals may choose not to report alleged sexual harassment to law enforcement authorities. The College respects and supports individuals’ decisions regarding reporting; nevertheless, the College may notify appropriate law enforcement authorities if legally required or warranted by the nature of the allegations.

### B. Reporting to College Officials

The College’s Title IX Coordinator oversees compliance with these Procedures and Title IX regulations. Questions about these Procedures should be directed to the Title IX Coordinator. Anyone wishing to make a report relating to sexual harassment may do so by reporting the concern to the College’s Title IX Coordinator in person, by mail, by telephone, by email, or by any other means that results in the Title IX Coordinator receiving the person’s verbal or written report of alleged sexual harassment.

CFCC also provides [Online Reporting](#).

### C. Time Limits on Reporting

There is no time limitation on reporting complaints to the Title IX Coordinator. However, if the Respondent is no longer subject to the College’s jurisdiction and/or a significant time period has passed, the ability to investigate, respond, and provide resolution may be limited.

### D. Emergency Removal / Administrative Leave

The College may remove a respondent from its education program or activities on an emergency basis when the health and safety of the college community is threatened. This decision will be determined by the Title IX Coordinator, in conjunction with the Behavioral Intervention Team (BIT), and utilized when appropriate and justified. The respondent will be provided with notice and an opportunity to challenge the decision immediately following the removal, and when applicable, in accordance with the Individuals with Disabilities act, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act. Any violation of an emergency removal under this policy will be grounds for discipline, which may include expulsion or termination of employment.

## IV. Grievance Procedures

### A. Scope

1. Use of these grievance procedures applies to reports alleging sexual harassment carried out by employees, students, or third parties.
2. All reports of sexual harassment are taken seriously. At the same time, those accused of sexual harassment are presumed "not responsible" throughout this grievance procedure.

### B. Initial Response, Determination and/or Dismissal

1. After receiving a report of sexual harassment, the Title IX Coordinator takes immediate and appropriate steps to:
  - a. Communicate with the individual who reported the alleged conduct;
  - b. Implement supportive measures to eliminate and prevent the recurrence of sex harassment, deter retaliation, remedy the effects of sex harassment, and provide due process rights during a College investigation;
  - c. Provide the individual with a copy of this Policy and Procedure; and
  - d. Determine whether the alleged conduct, as described by the reporting party, falls within the scope of this policy and if so, initiate the investigation and resolution procedures outlined below.
2. The Title IX Coordinator must administratively close, or dismiss, a formal complaint of sexual harassment if after an initial assessment:
  - a. The allegations as stated do not constitute a violation of this policy and procedure, even if proven; or
  - b. The alleged sexual harassment did not occur in the College's Education Program or Activity, or did not occur in the United States.
  - c. The Title IX Coordinator will notify the parties if a report or complaint of sexual harassment is closed under this section, including the reason(s) for closure, and direct the parties to the appropriate College office or department to resolve the report or complaint. All parties may appeal the Title IX Coordinator's dismissal of a Formal Complaint under this section by using the appeal procedures below.
3. The Title IX Coordinator may administratively close, or dismiss, a report or complaint of sexual harassment if:
  - a. The Complainant, at any time, requests withdrawal of the report or complaint;
  - b. The Respondent is no longer enrolled or employed by the College; or
  - c. The College is prevented from gathering evidence sufficient to reach a determination of responsibility.
  - d. The Title IX Coordinator will notify the parties if a report or complaint of sexual harassment is closed under this section, including the reason(s) for closure, and direct the parties to the appropriate College office or department to resolve the report or complaint. All parties may appeal the Title IX Coordinator's dismissal of a Formal Complaint under this section by using the appeal procedures below.

4. Regardless of when alleged sexual harassment is reported, a Complainant must be participating in or attempting to participate in CFCC's educational programs or activities for a Formal Complaint to be filed.

### **C. Informal Resolution**

1. Any party may request the College facilitate an informal resolution to a sexual harassment complaint at any time after the filing of a Formal Complaint. The Title IX Coordinator may offer the parties the opportunity for informal resolution, too.

a. Upon a request for informal resolution, the Title IX Coordinator determines whether informal resolution is appropriate based on the facts and circumstances of the case. The Title IX Coordinator ensures that any proposed informal resolution is consistent with the College's obligations to prevent and redress sexual harassment.

b. A student's allegations of sexual harassment against a College employee are not eligible for informal resolution.

c. The Title IX Coordinator provides the parties with written notice of proceeding with an informal resolution, including the allegations of sexual harassment, the requirements of the informal resolution process, and potential outcomes resulting from participating in the informal resolution process.

d. The Title IX Coordinator also designates an independent, neutral person to facilitate the informal resolution.

2. Informal resolution is voluntary.

a. The Complainant and Respondent must provide written consent for informal resolution to take place.

b. Any party has a right to end the informal resolution process at any time prior to agreeing to a resolution and begin or continue the formal investigation and grievance process.

3. Informal resolution concludes the matter only when all parties have signed a written agreement that confirms resolution of the allegations.

a. The resolution agreement must include a waiver of the parties' right to have a formal hearing on the allegations that have been informally resolved.

b. Parties are prohibited from revoking or appealing a resolution agreement. Should the Respondent violate the terms of an informal resolution agreement, such violation will subject the Respondent to an investigation and the formal grievance process contained in this procedure.

4. If a resolution agreement is not reached, the College will continue with a formal investigation.

### **D. Investigations**

1. The goal of a formal investigation is to reach a determination as to whether a Respondent has violated one or more College policies prohibiting sexual harassment and if so, remedy the effects of a violation.

a. The Title IX Coordinator may include possible violations of other College policies that contributed to, arose from, or are otherwise related to alleged violations of this Policy and Procedure in the scope of an investigation.

b. The Title IX Coordinator gives written notice to the Complainant and Respondent of the investigation, providing sufficient details to allow the parties to respond and prepare for initial interviews, including the identity of the parties involved (if known), the conduct alleged to be sexual harassment, the date and location of alleged incidents (if known), a statement that the Respondent is presumed not responsible and a determination of responsibility is made at the conclusion of the process, information regarding the parties' right to an advisor and the right to review evidence, and notice that the College prohibits knowingly making false statements or submitting false information during the grievance process.

c. The Title IX Coordinator designates an investigator to investigate the allegations of sexual harassment.

2. Parties to an investigation can expect a prompt, thorough, and equitable investigation of complaints, including the opportunity for parties to ask questions, present witnesses and provide information regarding the allegations.
3. Parties and witnesses should cooperate in the investigation process to the extent required by law and this policy.
4. The college will use the “preponderance of evidence standard”, or “more likely than not”, as the standard for proof during its investigation and to whether a violation of this policy has occurred. It is the College’s responsibility to establish the standard of proof and gather evidence during investigations.
5. The College aims to bring all investigations to a resolution within thirty (30) business days from the date the Title IX Coordinator determines an investigation will commence.
  - a. Extensions of timeframe for good cause are allowed, so long as written notice and the reason for the delay is provided to the parties. Good cause includes:
    - i. The complexity and/or number of the allegations;
    - ii. The severity and extent of the alleged misconduct;
    - iii. The number of parties, witnesses, and other types of evidence involved;
    - iv. The availability of the parties, witnesses, and evidence;
    - v. A request by a party to delay an investigation;
    - vi. The effect of a concurrent criminal investigation or proceeding;
    - vii. Intervening holidays, College breaks, or other closures;
    - viii. Good faith efforts to reach a resolution; or
    - ix. Other unforeseen circumstances.
  - b. Investigations typically include interviews with the Complainant, the Respondent, and any witnesses, and the objective evaluation of any physical, documentary, or other evidence as appropriate and available. The College will give the Complainant and the Respondent written notice of any interview, meeting, or hearing at which a party is invited or expected to participate.
  - c. The Title IX Coordinator will inform the Complainant and Respondent at regular intervals of the status of its investigation.
  - d. The College may suspend or place on administrative leave a student or employee, pending the completion of an investigation and resolution, when the College performs an individualized safety and risk analysis and determines the person poses an immediate threat to the physical health or safety of any member(s) of the College community.
    - i. The Title IX Coordinator may recommend to the appropriate College official to implement or stay an interim suspension of a student or employee and the conditions and duration of such suspension or leave.
    - ii. In all cases in which an interim suspension or administrative leave is imposed, the student or employee shall be given notice and an opportunity to challenge the removal decision immediately following the removal.
    - iii. Violation of an interim suspension under this Procedure is grounds for expulsion or termination.
6. Interviews conducted as part of an investigation under this Procedure may be recorded by the College. Recordings not authorized by the College are prohibited.
7. The Complainant and Respondent have the right to be accompanied by an advisor of their choosing during all stages of an investigation.

- a. A party may elect to change advisors during the process.
- b. All advisors are subject to the same rules:
  - i. During the investigation, the advisor's role is limited to providing advice, guidance, and support to the Complainant or Respondent. An advisor is not permitted to act as a participant or advocate during the investigative process.
  - ii. Advisors are expected to maintain the privacy of the records shared with them.
  - iii. Advisors are expected to refrain from interfering with investigations.
  - iv. Any advisor who oversteps their role or interferes during an investigation process will be warned once. If the advisor continues to disrupt or otherwise fails to respect the limits of the advisor role, the advisor will be asked to leave. The Title IX Coordinator determines whether the advisor may return or should be replaced by a different advisor.
- 8. Prior to finalizing a report, the investigator provides all parties an equal opportunity to review any evidence obtained as part of the investigation that is directly related to the allegations raised in the Formal Complaint, including evidence upon which the College does not intend to rely.
  - a. The Complainant and Respondent may submit a written response to the evidence within ten days after receipt of the evidence.
    - i. Responses must be submitted to the investigator via email, mail, or hand delivery by 5:00 p.m. eastern standard time on the date responses are due.
    - ii. Responses may not exceed 10 double-spaced pages on 8.5x11 paper with one-inch margins and 12-point font.
  - b. The investigator considers any responses received from the parties and conducts any further investigation necessary or appropriate.
- 9. Following an investigation and at least 10 days prior to a grievance hearing, the investigator submits an investigative report to the parties that fairly summarizes relevant evidence. The report includes a summary of the allegations; a summary of the response; a summary of the investigative steps taken to verify the allegations and response; and a summary of the evidence relevant to a determination of responsibility.

## V. Grievance Hearings

At least 10 days after the issuance of an investigation report, the College must hold a live hearing in front of a decision-maker (hearing officer) to determine responsibility of a Respondent. The decision-maker may not be the Title IX Coordinator or the investigator(s). A "live hearing" means either in person or virtually. The following hearing rules apply:

- A. All parties must be able to see and hear the questioning of parties and witnesses.
- B. Any party may request a virtual hearing. If requested, the College will provide a virtual hearing.
- C. All parties have an equal opportunity to present witnesses, including fact and expert witnesses.
- D. The parties' advisors are permitted to cross-examine the parties and any witnesses.
  - 1. The parties are prohibited from directly conducting cross-examination. Cross-examination must be conducted by a party's advisor.

2. The decision-maker determines whether questions asked during cross-examination are relevant to the determination of responsibility. If the decision-maker disallows a question, they will explain the basis for their decision at the hearing. Parties and advisors may not challenge a decision-maker's relevancy determinations during the hearing.

3. Evidence or questions that inquire about the Complainant's sexual predisposition or prior sexual history are prohibited (i.e. rape-shield protections) unless such questions and evidence are offered to prove that someone other than the Respondent committed the conduct alleged by the Complainant, or if the questions and evidence concern specific incidents of the Complainant's prior sexual behavior with respect to the Respondent and are offered to prove consent.

4. The decision-maker may not consider statements of individuals who do not submit to cross-examination in reaching a determination of responsibility

5. Records with a legally recognized privilege, such as medical treatment records, may not be used unless the individual or entity who holds the privilege waives the privilege. Any waiver must be written and made in advance of a hearing.

6. If a party does not have an advisor, the College will provide an advisor at no cost to the party. The advisor may, or may not, be an attorney.

7. Other standard Rules of Evidence do not apply in grievance hearings under these Procedures.

E. The College will provide either an audio recording, audiovisual recording, or transcript of the hearing to all parties.

F. The decision-maker evaluates all relevant evidence and reaches a determination regarding responsibility. The decision-maker issues their final written determination to all parties within ten (10) days of the hearing. The final written determination includes a summary of the allegations; a description of the procedural steps taken by the College to investigate and reach a determination of responsibility; findings of fact supporting the determination; conclusions regarding the application of College policies to the facts; a statement of and rationale for the result as to each allegation, including a determination of responsibility; any disciplinary sanctions the College recommends or imposes; whether remedies designed to restore or preserve equal access to an education program or activity will be provided to the Complainant; and the College's appeal procedures.

G. The following sanctions may be imposed for those who have violated these Procedures:

1. Students

- a. Conduct Warning (Verbal or Written)
- b. Conduct Probation
- c. Administrative withdrawal / Interim Conduct Suspension
- d. Required Counseling
- e. "No Contact Agreement" Directive
- f. Conduct Suspension
- g. Expulsion
- h. Other consequences deemed appropriate

2. Employees

- a. Verbal or Written Warning



- b. Performance Improvement Plan
- c. Required Counseling
- d. Required Training or Education
- e. Recommendation of Demotion
- f. Recommendation to Suspend with, or without Pay
- g. Recommendation of Dismissal and/or Termination
- h. Other consequences deemed appropriate to the specific violation

If the decision-maker is required to make a recommendation for student expulsion or employee suspension, demotion or dismissal/termination, such recommendation will be made to the appropriate College official after the time for appeal has expired. If the decision-maker recommends the Respondent be expelled, suspended, demoted, or dismissed/terminated, during the time in which either party has to appeal, the Respondent shall remain on suspension unless otherwise determined by the decision-maker.

## VI. Appeals

After the decision-maker submits their determination of responsibility to the Complainant and Respondent, all parties are given an equal opportunity to appeal the determination. Appeals may be based only on these grounds:

- A. Procedural irregularity that affected the outcome;
- B. New evidence that was not reasonably available at the time of the hearing that could affect the outcome; and/or
- C. The Title IX Coordinator, investigator, or decision-maker had a bias or conflict of interest that affected the outcome.

Parties must submit any appeal to the President of the College by 5:00 p.m. eastern standard time via email or mail, within ten (10) days of receiving the decision-maker's written determination of responsibility. Appeals may not exceed ten (10) double-spaced pages on 8.5x11 paper with one-inch margins and 12-point font.

The College notifies all parties when an appeal is filed and provides all parties a copy of the appeal and a chance to submit a written statement supporting or challenging the outcome. Parties must submit written statements supporting or challenging the outcome to the President of the College by 5:00 p.m. eastern standard time via email or mail, within two (2) days of receiving a copy of an appeal.

The President shall conduct a review of the record, including the appeal(s) received, any written statements supporting or challenging the outcome, the investigation report, the decision-maker's written determination of responsibility, and any accompanying evidence prior to issuing a written decision to the Complainant and Respondent that describes the result of the appeal and the rationale for the result. The President's written decision is final.

## VII. Retaliation

The college strictly prohibits retaliation against any person for reporting, testifying, assisting or participating, in any manner, in any investigation or proceeding involving allegations of discrimination or sexual harassment. Any person who violates this policy will be subject to discipline, up to and including termination if they are an employee, and/or expulsion if they are a student. Retaliation is any action by any person that is perceived as: intimidating, hostile, harassing, a form of retribution, or violence that occurs in connection to reporting an incident and/or participating in the adjudication process. The College will not in any way retaliate against an individual for the purpose of interfering with any right or privilege secured by Title IX or because the individual has made a report or complaint, testified, assisted, participated, or refused to participate in any manner in an investigation, proceeding, or hearing

under these procedures. Retaliation is a violation of College policy regardless of whether the underlying allegations are ultimately found to have merit. Reports of retaliation are treated separately from reports or complaints of sexual harassment.

## VIII. Providing False Information

Any individual who knowingly files a false report or complaint, who knowingly provides false information to College officials or who knowingly misleads College officials involved in the investigation or resolution of a complaint may be subject to disciplinary action, including but not limited to expulsion or employment termination. The College recognizes a determination regarding responsibility alone is not sufficient to conclude a false report or complaint was made.

## IX. Limited Immunity

The College community encourages the reporting of misconduct and crimes. Sometimes, complainants or witnesses are hesitant to report to College officials or participate in resolution processes because they fear they themselves may be accused of various policy violations. It is in the best interest of this College that as many complainants as possible choose to report to College officials and that witnesses come forward to share what they know. To encourage reporting, the College offers sexual harassment complainants and witnesses amnesty from minor policy violations.

## X. Amnesty

CFCC considers the reporting and adjudication of Sexual Harassment to be of utmost importance. CFCC does not condone underage drinking or the use of illegal drugs; however, CFCC may extend amnesty to complainants, respondents, witnesses, and others involved in a grievance process from punitive sanctioning for illegal use of drugs and/or alcohol when evidence of such use is discovered or submitted in the course of a grievance process. Similarly, CFCC may, in its discretion, provide amnesty for other conduct code violations that are discovered in the course of a grievance process.

## XI. FERPA (Family Educational Rights and Privacy Act)

A student's personally identifiable information found in a student's education records will be shared only with College employees who need to know to assist with the College's response to sexual harassment.

A student's personally identifiable information found in a student's education records will not be disclosed to third parties unaffiliated with the College unless:

- A. The student gives consent;
- B. The College must respond to a lawfully issued subpoena or court order; or
- C. The College is otherwise required by law to disclose.

## VIII. Suspending Procedures

In cases of emergency or serious misconduct, the College reserves the right to suspend this process and may enact appropriate action for the welfare and safety of the College community.

## IX. Employee Education and Annual Training

CFCC offers training and educational opportunities to all current students and employees to create a safe learning environment and workplace free from sex discrimination and/or harassment. All new students and all current employees will be offered SafeColleges primary prevention and awareness programs that may safeguard against acts of sex discrimination or harassment. These programs will be held annually at the beginning of each semester.

CFCC has partnered with SafeColleges for general Title IX and Sex Discrimination and Harassment Training. SafeColleges is a federally registered trademark of Vector Solutions, and all training material is copyrighted. For inquiries or access to training materials, please contact [support@safecolleges.com](mailto:support@safecolleges.com). In addition, the Title IX Coordinator and those individuals involved in resolving Title IX related complaints participate in additional extensive training specifically for Title IX.

Additional training(s) provided by: Association of Title IX Administrators (ATIXA): <https://atixa.org/2020-regulations-requirement-posting-of-training-materials/>

## X. Recordkeeping

All informal resolutions will not be included in the respondent's permanent educational record or noted on an official transcript, or included in an employee's personnel record, however, if appropriate, may be kept on file as a student code of conduct incident. The College will retain a record of Title IX formal resolutions and outcomes for no less than seven years.

*CFCC Board of Trustees, Approved, March 25, 2021*

## Alternative Transportation

CFCC is a pedestrian-friendly commuter campus that understands the importance of alternative and active modes of transportation. Due to safety implications and concerns, all wheeled conveyances, including but not limited to, scooters, segways, skateboards, rollerblades/in-line, skates, hoverboards, razors, one-wheels, excluding bicycles, must adhere to the City of Wilmington, N.C., Code of Ordinance, Chapter 11, Street and Sidewalks, Article I., In General, Sec. 11-15. (b), and more importantly, give the right of way to any pedestrian on campus or immediately adjacent on the public sidewalks and streets. Any individual, whether, student, employee, or visitor, should use caution when traveling to and from campus and respect all pedestrian's right-of-way to ensure a safe college community.

Additionally, under the Americans with Disabilities Act (ADA), any wheelchair, mobility aid, or other power-driven mobility devices, including the aforementioned equipment, may be utilized as medically assistive transport or for the aid of the physically limited or disabled person. These individuals are allowed on public sidewalks and throughout all CFCC's campus buildings owned and operated by the college.

Alternative transportation devices, including bicycles, are strictly prohibited inside any building, hallway, stairwell, or common area owned or operated by the college, including parking decks. Individuals will be removed from campus and could be legally responsible for any damage to College property. Any student or employee who violates this policy may be referred to the Dean of Student Affairs or Human Resources respectively for disciplinary action. Visitors who violate this policy may be subject to prosecution under the city code of ordinance and/or state law. Continued non-compliance may be subject to trespassing.

*Please refer to the City of Wilmington, N.C., Code of Ordinance, Chapter 11 - Street and Sidewalks / Article I. - In General / Sec. 11-15. (b) 25*

*"No person shall operate, ride or use any motive device propelled or designed for propulsion by human power upon any public street, public sidewalk, public park or public vehicular area located in the central business district or upon the Riverwalk. The term "motive device propelled or designed for propulsion by human power" includes: tricycles, coasters, scooters, skateboards, roller skates, roller blades, sleds and wagons, but shall not include bicycles as defined in section 5-1 of the Code (when operated on city streets) and wheelchairs or other devices operated or used by handicapped or disabled persons. For the purposes of this section, the central business district shall be the Central Business Zoning District as established and modified from time to time under chapter 18 of this Code, and that area bounded by the western line of Seventh Street, the southern line of Market Street, the western line of Third Street and the northern line of Chestnut Street. For the purposes of this section, Riverwalk, a public park, is defined in section 7-1.1(a) of this Code."* LOCATION: Central Business District/Zoning

CFCC Board of Trustees approved July 18, 2024

## Change of Name, Address, Phone Number

It is extremely important for the College to have accurate name, address, and phone information for each student. Name, address, phone number, or personal email updates may be requested by completing and submitting the "Change of Student Information" form through Softdocs or in person at the Registrar's Office. Name changes requested while a student is actively in process of any course(s) will be held and processed by the college after the conclusion of the course(s). Legal name changes will require government issued documentation such as a signed social security card, driver's license, passport, government-issued visa, or applicable court documents.

## College Closing & Delays

In the event of inclement weather, Cape Fear Community College may close or delay classes depending on the weather forecast and local conditions. All official college closings and delays will be posted on the college website at [www.cfcc.edu](http://www.cfcc.edu), myCFCC online portal, the CFCC Emergency Information Hotline (877) 799-2322, and through the local news media. Students who subscribe to the text messaging alert system through myCFCC online portal will be notified of closings and delays through text messages. Students are encouraged to familiarize themselves with these resources as soon as possible.

## Inclement Weather

While the College makes every effort to provide a safe environment on campus, the College does not take responsibility for student safety while traveling to and from campus. During periods of inclement or hazardous weather, students must use their best judgment when deciding to come to class. College officials do not expect students to take extreme risks to their personal safety to attend class. However, if a student chooses not to come to class due to inclement weather when the college is open, the student will be counted as absent in accordance with the attendance policies for that student's class(es). Classes that are canceled due to inclement weather may, at the discretion of a class's instructor, be made up using the online or web-assisted components of those classes to deliver instruction.

## Modifications to Instructional Methods

CFCC values the importance of offering students a variety of instructional delivery options, including traditional face-to-face instruction, online instruction, and blended (face-to-face and online) instruction. In certain circumstances such as public health emergencies or natural disasters, it may be necessary for the college to transition face-to-face and blended classes to online delivery; by modifying the start and end dates of a class; or by other methods of adjusting instructional delivery arrangements in order to ensure the safety and wellbeing of CFCC students, faculty, and staff. Should such changes in instructional delivery become necessary, CFCC will notify

all students in a timely manner and will make every effort to assist students with the transition through outreach and offering services such as Counseling, Tutoring, Learning Lab, etc. In such circumstances, CFCC instructors will work to ensure that students continue to have the opportunity to attain the learning outcomes listed in the course description.

## Display or Distribution of Materials

The following information contains guidelines for display or distribution of Handbills, Posters, or Other Materials by Student Clubs, Community and Non-Profit Organizations, and Individuals.

The College would like to provide educational opportunities to its students and others in the College community and believes that public expression through the display or distribution of handbills, posters, or other materials can play an important role in accomplishing this goal. The College also believes firmly in its obligation to College employees and its students to provide an environment that is conducive to learning. Public expression that enhances this environment by affording students and others in the College community exposure to a variety of ideas is encouraged. Subject to the terms and conditions set forth in these procedures, to any rules or regulations established by the College pertaining to display or distribution, and to other applicable laws, rules, and regulations, an organization or individual may display or distribute handbills, posters, or other materials that are aimed at providing information to students.

The following guidelines apply to materials posted on the campus of Cape Fear Community College, regardless of the source of those materials:

- Posted information shall not contain obscene or libelous information or other information that is not protected by law.
- Information will not be placed over existing notices. Outdated material will be removed to make room for timely information.
- All event items must be removed by the sponsoring organization immediately following the event.
- All notices to be posted require approval by the Vice President of Student Services (or designee).
- Due to extreme space limitations, information to be posted by student groups, community groups, or individuals in areas other than those reserved for Phi Theta Kappa and academically oriented student clubs will be posted for a maximum of two (2) weeks and must be no larger than 8.5" x 11".
- Items not approved in the prescribed manner will be removed and discarded.
- Placement of information on vehicles of others on campus is prohibited.
- The College reserves exclusive rights to re-arrange materials to accommodate the display of additional materials, to establish limits on the amount of information organizations may display, and to deny additional requests when all designated space is being used.
- Failure by any organization or individual to abide by Cape Fear Community College guidelines will be grounds for denying additional requests from the same organization or individual.

The College will grant access by an eligible organization or individual to areas of College premises designated for public expression on a neutral basis in accordance with these procedures. A grant of access to any particular organization or individual does not mean that the College endorses the beliefs, practices, or views expressed by that organization or individual, and outside organizations and individuals are expressly prohibited from stating, implying, or suggesting in any manner that they are endorsed by or associated with the College or that any publication, announcement, or other form of expression provided by the organization or individual has been

approved by or is associated with the College. Areas of College premises designated for public expression will not be denied to any organization or individual on the basis of the content of information sought to be provided by or the convictions or affiliations of that organization or individual.

Given the varying nature of different organizations and the wide range of notices that individual students and/or College personnel may wish to post on occasion, additional guidelines apply to certain types of organizations and individuals.

Additional information is available from the Student Services office.

## Electronic Signature

Cape Fear Community College (CFCC) recognizes an electronic signature as a valid signature from employees and students subject to Conditions 1 and 2 below:

### Condition 1: Campus Network Username and Password

- Institution provides student with a unique username
- Student sets his or her own password
- Student logs into the campus network and secure site using both the username and the password

### Condition 2: Student Login ID and Personal Identification Number (PIN)

- Institution provides student with a unique PIN
- Student sets his or her own PIN
- Student logs into a secure site using both the login ID and PIN

An electronic signature is defined as any electronic process signifying an approval to terms, and/or ensuring the integrity of the document, presented in electronic format.

Students use electronic signatures to register, check financial aid awards, pay student bills, obtain unofficial transcripts, update contact information, log into campus computers, complete forms, submission of class work, tests, etc.

It is the responsibility and obligation of each individual to keep their passwords and PIN private so others cannot use their credentials. This is further explained in the CFCC Student Catalog section on "Acceptable Use Policy."

Once logged in, the student is responsible for any information they provide, update, or remove. CFCC will take steps to ensure both the passwords and PIN are protected and kept confidential. Furthermore, users are responsible for logging out of all systems and exercising the necessary precautions when using publicly accessible computers.

This policy is in addition to all applicable federal and state statutes, policies, guidelines, and standards.

## No Solicitation Policy

Cape Fear Community College (CFCC) upholds the freedoms of speech and expression guaranteed by the First Amendment of the U.S. Constitution for all members of the college community. CFCC is a place where all ideas and opinions may be expressed freely. The right to free speech and expression does not include unlawful activity that endangers the safety or well-being of any member of the college community. Furthermore, it does not include any activity that interferes with the educational pursuit of its students or the mission of the college.

To provide a safe learning and work environment, and protect all students, employees, and visitors of the college, solicitation is prohibited and includes, but is not limited to, third-party unsolicited verbal or written communications by mail or email, circulars and/or petitions, handbills, leaflets, pamphlets, posters, flyers, or any literature and printed materials. Salespersons, solicitors and/or external agencies will not be allowed to solicit or



distribute these materials or items on college-owned property, or premises, to students or employees unless it is a recognized nonprofit/charitable organization or has prior approval from the President of the college. In addition, salespersons, solicitors, and/or external agencies may not erect a fixed or temporary structure on CFCC campus property or premises unless approved by the CFCC President or designee. Solicitation for personal or financial benefit is prohibited by CFCC employees during designated working hours.

Employees and students wishing to fundraise on campus must obtain prior approval from the Institutional Advancement office, or the President of the college. It is suggested that no employee or student accept monetary gifts.

CFCC reserves the right to remove any individual or organization engaging in solicitation activities on campus without prior approval.

*CFCC Board of Trustees approved May 18, 2023*

## Parking

To park on any CFCC property, you must clearly display a CFCC parking decal. Parking decals, along with rules and regulations, are obtained in the Business Office. Violation of parking policy may result in citations, towing or booting of vehicle, or further disciplinary action.

Downtown, the College offers student surface parking lots and a parking deck at 200 Hanover Street. In addition to the parking decal, students must have a CFCC Student ID card to enter and exit the parking deck. Student IDs may be obtained from the Downtown or North Campus Business Office by bringing another form of photo identification and a current class schedule. The North Campus, the Burgaw Center, and the Alston W. Burke Center offer surface parking lots.

Handicap parking is provided at each of Cape Fear Community College's campuses and centers. Downtown, anyone displaying a DMV Handicap placard or license plate may park in any of the metered, City street parking spaces without paying.

For complete rules and regulations, along with the most up-to-date information regarding parking and traffic conditions, please refer to the [Parking at CFCC webpage](#).

## Parking & Security Permits

A non-refundable fee is charged to curriculum students for College access, parking, and security. A parking permit is issued when a student is paying for their tuition and fees in the Business Office. The parking permit is valid September 1 to August 31. The maximum cost of the College access, parking, and security fee per semester is \$75, but is subject to change.

## Patent & Copyright Policy

Every invention, discovery, material, work, product, or any part thereof, that results from the efforts of a full or part-time employee, student, or outside consultant carried out while in the employment of, or under contract or agreement of any kind with, the College and that is produced or brought about in any fashion with the aid of the College's facilities, staff, or through funds administered by the College shall, as between the College and the full or part-time employee, student, or outside consultant, be the property of the College. Any patents, trademarks, trade names, and/or trade secrets shall belong to the College and any legal protection applied for shall be applied for by the College or through an authorized agent, assignee, or licensee in the name of the College.



As a general rule, all rights to copyrightable material are the property of the creator. The creator shall be deemed to be the College where a specific contract so provides, where a full or part-time employee, student, or outside consultant is employed for the purpose of producing a specific copyrightable work, or where necessary to reflect the contribution of the College to the work, as in the case of software or audiovisual material of any kind.

As between the College and The State Board of Community Colleges, ownership of any of the above-described items shall be determined in accordance with applicable regulations of the State Board of Community Colleges.

The College may charge a reasonable rental fee for use of any of the above-described items and, further, if such item is a learned journal, work of art, book, publication, textbook, library book, form bulletin, or instructional supply, then it may, as allowed by the Umstead Act, be offered for sale by the College.

This policy shall be deemed to be a part of any existing and/or future employment or consulting agreements of the College.

*Employee Handbook*

## Student Privacy Information

### Verification of Student Identity

The College's Acceptable Use Policy governs students' use of account names and login credentials in any classes that have an online component: "An access account assigned to a user must not be used by any other individual. Users are responsible for the proper use of their accounts, including proper password protection and appropriate use of the College's computing resources. Obtaining another user's password, allowing friends, family, co-workers, or any other individual use of your or another user's account, or other unauthorized use of an access account is a serious violation of this policy." The College may employ a variety of measures, including multi-factor authentication and biometric assessments, to verify that a student who accesses and participates in a class with an online learning component is the same student who registered for and receives credit for that class.

### Privacy Information

Cape Fear Community College has procedures in place to protect the privacy of all students and their education records, whether students are enrolled in online learning activities or attend class on campus. Cape Fear Community College protects the security, confidentiality, and integrity of all student records (including online learning students) in accordance with the US Department of Education Family Education Rights and Privacy Act of 1974 (FERPA). Students are notified of their rights under FERPA during student orientation, through the CFCC website, and the CFCC Catalog and Student Handbook. New faculty and staff receive FERPA information during the mandatory new employee orientation. Faculty and staff also receive annual online refresher training on FERPA. Faculty and staff agree to a statement regarding the confidentiality of student records each time they access the College's student information system (Colleague Disclosure Statement), the College's electronic means of accessing student records.

The College's online services employ encryption to protect the data in transit and at rest. Data in transit is protected by Secure Socket Layer (SSL), providing authentication of the server, encryption of all data sent to and from the server, and integrity checks of the data. Data at rest is protected by full disk encryption (ex: Bitlocker or AWS EBS encryption). Encryption is used for myCFCC, Canvas, Self-Service, and Google Apps.

All students and employees accessing the myCFCC portal agree to the CFCC's Acceptable Use Policy.

## What is FERPA?

The Family Educational Rights and Privacy Act (FERPA) affords eligible students certain rights with respect to their education records. (An “eligible student” under FERPA is a student who is 18 years of age or older **or who attends a postsecondary institution at any age.**)

## What rights do students have under FERPA?

FERPA affords students certain rights with respect to their education records.

These rights include:

1. The right to inspect and review their education records. Cape Fear Community College requires written authorization from the student prior to the release of academic records. A minimum of 48 working hours will be required by the College to access the requested academic information. The student may inspect, copy, and review his/her records in the Registrar’s Office. There may be a charge for copies. The Registrar will arrange for access and will notify the student of the time and place where the records may be inspected.
2. The right to request the amendment of the student’s education records that the student believes is inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA. A student who wishes to ask Cape Fear Community College to amend a record should write the Registrar, clearly identify the part of the record the student wants changed, and specify why it should be changed. If the College decides not to amend the record as requested, the College will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. FERPA does not address issues involved with assigning grades for academic work. A student interested in appealing grades should follow the grade appeal procedure found in the College Catalog.
3. The right to provide written consent before Cape Fear Community College discloses personally identifiable information from the student’s education records, except to the extent that FERPA authorizes disclosure without consent. The College discloses education records without a student’s prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is typically a person employed by Cape Fear Community College in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person serving on the board of trustees; or a student serving on an official committee, such as a disciplinary or grievance committee. A school official also may include a volunteer or contractor outside of the College who performs an institutional service of function for which the school would otherwise use its own employees and who is under the direct control of the school with respect to the use and maintenance of Personally Identifiable Information (PII) from education records, such as an attorney, auditor, or collection agent or a student volunteering to assist another school official in performing his or her tasks. A school official typically has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the College. Upon request, the College may also disclose education records without consent to officials of another school in which a student seeks or intends to enroll. See more on this below under the area titled “Disclosure without student consent.”
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Cape Fear Community College to comply with the requirements of FERPA.

**Written complaints should be sent to:**

Family Policy Compliance Office

## What is Directory Information at Cape Fear Community College?

The following items are designated as “Directory Information” and this information may be released at the discretion of the College without the student’s consent unless a student files a request to withhold directory information:

- Name
- City/county of residence
- Major field of study
- Full time/Part-time enrollment
- The most recent college attended
- Dates of enrollment
- Degrees and awards received
- The College assigned email address

## How may a student request to withhold disclosure of Directory Information?

Students have the right to withhold disclosure of any directory information to third parties by completing the “Disclosure Request Form” with the Registrar’s Office. The request will remain active for the duration that a student is attending the College, unless the student rescinds the withholding. The College assumes that a student’s failure to file a request for non-disclosure indicates approval for disclosure.

### Third-party requests for directory information:

The request for student directory information from third-party individuals or companies must be submitted through the college’s “Public Information Request Form” online. Directory information will only be disclosed at the discretion of the Registrar. Requests that could potentially violate college policies, be considered harmful to the students, or without specific purpose, may be denied. If the request is denied, the Registrar will respond in writing.

## How may a student authorize for the college to release information to parent, spouse, or another person or third party?

Cape Fear Community College recognizes that some students would like to authorize someone else to have access to or to be able to discuss their grades, financial records, academic records, and other records.

When a student, regardless of age, enters an institution of higher education such as Cape Fear Community College, all rights to inspect and review the education record transfer from the parent to the student under FERPA. With a student’s written permission, we may share the student’s records (academic records, account/billing information, and/or financial aid records) with the student’s parent(s), spouse, and/or other individuals the student chooses to designate. This privacy release will remain in effect for the duration of the student’s enrollment at Cape Fear Community College, unless rescinded by the student in writing. If a student would like to grant access to release his/her student records to someone such as a parent, the student must complete the “Disclosure Release Form” with the Registrar’s Office and allow at least 48 hours for processing.

## Disclosure without student consent:

FERPA permits the disclosure of Personally Identifiable Information (PII) from students' education records, without consent of the student, if the disclosure meets certain conditions found in § 99.31 of the FERPA regulations. Eligible students have a right to inspect and review the record of disclosures.

More information about disclosures that do not require student consent can be found on the [U.S. Department of Education website](#).

## Solomon Amendment & FERPA

The Solomon Amendment is a federal law that allows military recruiters to access some address, biographical, and academic program information on students age 17 and older who have not filed any full block FERPA restrictions.

The U.S. Department of Education has determined the Solomon Amendment supersedes most elements of FERPA. An institution is therefore obligated to release data included in the list of "student recruiting information," which may or may not match our FERPA directory information list. Solomon Amendment "student recruitment information" includes:

- Name
- Address
- Telephone (not specific if local or permanent)
- Electronic mail addresses (which shall be the electronic mail addresses provided by the institution, if available)
- Age and date of birth
- Place of birth
- Level of education
- Academic major
- Degrees received
- Educational institution in which the student was most recently enrolled

This information may be distributed once per term to each of the 12 eligible units within the five branches of the service.

## Faculty and FERPA

The faculty of the College have a legitimate educational interest in a student's academic records. Therefore, access to those records is authorized by the institution. Along with this access comes certain obligations and responsibilities.

A faculty member shall not access educational records of any student for which he/she does not have a direct advisory responsibility. Those with direct advisory responsibility include the current instructors of the student, the student's faculty advisor, and the appropriate department head and division chair. A faculty member not professionally associated with a student shall not access educational records of the student without the written consent of the student.

A faculty member shall not disclose any information from a student's record to a third party (i.e., other students, other faculty members, employers, etc.) without the written consent of the student. Parents of the student do not have special access rights and should not be given information without the student's written consent.

A faculty member shall be responsible for the security of all academic information in his/her possession. These records must not be accessible to students and unauthorized personnel.

A faculty member shall refrain from disclosing academic information by phone without the expressed written consent of the student.

## Administration and FERPA

Student Services and Enrollment Management and specifically the Registrar's Office, has the responsibility of maintaining and safeguarding the academic records of all students of the College. Consistent with this responsibility, the personnel of Student Services and Enrollment Management will access student records as needed. However, these individuals bear the responsibility for ensuring that no unauthorized disclosure of student academic information occurs without the expressed written consent of that student.

The president, vice presidents and deans of the College may access student records when needed to facilitate the student's educational pursuit. College administrators may disclose a student's educational records to appropriate parties in connection with a health or safety emergency. Furthermore, College administrators have the right to contact parents of any student under the age of 21 who has violated a federal, state, or local law, or any rule or policy of the institution, governing the use or possession of alcohol or a controlled substance.

The educational records of a student will not be accessed for employment decisions without the expressed written consent of the student. Information from student academic records may be shared in aggregate for educational research purposes.

## Student Records and Rights

Under the Family Educational Rights and Privacy Act of 1974, the rights of the student and the responsibilities of the institution concerning the various types of student records maintained by the institution are established. Consistent with this legislation, Cape Fear Community College establishes the following policy to ensure compliance. Failure to comply with standards prescribed in the Act could jeopardize federal funding received by the institution and its students.

In compliance with the law, an individual becomes a student when he/she registers at the College. Upon reaching age 18 or attending an institution beyond the high school level, the student has the right to view his/her own school or college records. These records include the academic transcript of the College, post-secondary transcripts, high school transcripts, and other documents maintained as part of the student's permanent file with the exception of confidential letters of recommendation. All permanent academic records are housed and maintained by the Registrar.

CFCC requires written authorization from the student prior to the release of academic records. A minimum of 48 working hours will be required by the College to access the requested academic information. The student may inspect, copy, and review his/her records in the Registrar's Office. There may be a charge for copies.

## Career & Technical Education Programs

Advanced Manufacturing, Trades & Transportation

Business, IT & Public Service

Public Safety

## Health & Human Services Programs

### Allied Health and Human Services Programs

#### Early Childhood Education

Elementary Education Residency Licensure

High School Adjunct Instructor (Certificate)

#### Health Science Programs

## University Transfer & Partnerships Programs

### Associate in Arts

### Associate in General Education

### Associate in Science

### Commercial, Fine & Performing Arts

### English & University Success

### Humanities & Education

### Math & Associate in Engineering

### Science & Chemical Technology

### Social & Behavioral Sciences

## Programs for Dually Enrolled High School Students (Career and College Promise)

### University Transfer Pathways

---

### Career and Technical Education Pathways

---

## A/C, Heating & Refrigeration Department

### Programs

C35100 - Air Conditioning, Heating & Refrigeration  
Technology Certificate

C35100CP - Air Conditioning, Heating &  
Refrigeration Technology Pathway

C35100R - Air Conditioning, Heating & Refrigeration  
Technology - Commercial Refrigeration Certificate

C35100RP - Air Conditioning, Heating &  
Refrigeration Technology- Commercial Refrigeration  
Pathway

## D35100 - Air Conditioning, Heating & Refrigeration Technology Diploma

### Courses

AHR110 - Introduction to Refrigeration  
AHR111 - HVACR Electricity  
AHR112 - Heating Technology  
AHR113 - Comfort Cooling  
AHR114 - Heat Pump Technology  
AHR115 - Refrigeration Systems  
AHR130 - HVAC Controls  
AHR133 - HVAC Servicing  
AHR140 - All-Weather Systems  
AHR210 - Residential Building Code  
AHR211 - Residential System Design  
AHR215 - Commercial HVAC Controls  
AHR245 - Chiller Systems  
ALT250 - Thermal Systems

## Accounting & Finance Department

### Programs

A25800 - Accounting and Finance  
C25800 - Accounting and Finance Certificate  
C25800A - Forensic Accounting Analytics Certificate  
C25800AP - Forensic Accounting Analytics Pathway  
C25800B - Accounting Analytics Certificate  
C25800C - Accounting Fraud Network Security &  
Cybersecurity Certificate  
C25800CP - Accounting and Finance Pathway  
C25800D - Accounting and Finance - Bookkeeping  
Certificate  
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  
ACC130 - Business Income Taxes  
ACC132 - NC Business Taxes  
ACC140 - Payroll Accounting  
ACC149 - Introduction to Accounting Spreadsheets  
ACC150 - Accounting Software Applications  
ACC175 - Hotel and Restaurant Accounting

ACC180 - Practices in Bookkeeping  
ACC215 - Ethics in Accounting  
ACC220 - Intermediate Accounting I  
ACC221 - Intermediate Accounting II  
ACC225 - Cost Accounting  
ACC267 - Fraud Examination  
ACC269 - Auditing & Assurance Services  
BUS121 - Business Math  
ECO151 - Survey of Economics  
OST136 - Word Processing



# Architectural Technology Department

## Programs

A40100 - Architectural Technology

C40100 - Architectural Technology Certificate

C40100A - Architectural Technology - Advanced BIM

Option Certificate

C40100CP - Architectural Technology Pathway

## Courses

ARC111 - Introduction to Architectural Technology

ARC112 - Construction Materials & Methods

ARC113 - Residential Architectural Technology

ARC114 - Architectural CAD

ARC114A - Architectural CAD Lab

ARC132 - Specifications & Contracts

ARC211 - Light Construction Technology

ARC213 - Design Project

ARC214 - Architectural Statics

ARC220 - Advanced Architectural CAD

ARC225 - Architectural Building Information  
Modeling I

ARC225A - Architectural Building Information  
Modeling I Lab

ARC226 - Architectural Building Information  
Modeling II

ARC226A - Architectural Building Information  
Modeling II Lab

ARC230 - Environmental Systems

ARC231 - Architectural Presentations

ARC235 - Architectural Portfolio

ARC250 - Survey of Architecture

## Art Department

## Courses

ART111 - Art Appreciation

ART113 - Art Methods and Materials

ART114 - Art History Survey I

ART115 - Art History Survey II

ART116 - Survey of American Art

ART117 - Non-Western Art History

ART118 - Art by Women

ART121 - Two-Dimensional Design

ART122 - Three-Dimensional Design

ART130 - Basic Drawing

ART131 - Drawing I

ART132 - Drawing II

ART135 - Figure Drawing I

ART140 - Basic Painting

ART170 - The Business of Art

ART171 - Digital Design I

ART212 - Gallery Assistantship I

ART213 - Gallery Assistantship II

ART214 - Portfolio and Resume  
ART215 - Visual Art Portfolio  
ART222 - Wood Design I  
ART231 - Printmaking I  
ART232 - Printmaking II  
ART235 - Figure Drawing II  
ART240 - Painting I  
ART241 - Painting II  
ART242 - Landscape Painting  
ART243 - Portrait Painting  
ART244 - Watercolor  
ART245 - Metals I  
ART246 - Metals II  
ART247 - Jewelry I  
ART248 - Jewelry II  
ART250 - Surface Design: Textiles  
ART251 - Weaving I  
ART252 - Weaving II  
ART260 - Photography Appreciation  
ART261 - Photography I  
ART262 - Photography II  
ART264 - Digital Photography I  
ART265 - Digital Photography II  
ART266 - Videography I  
ART267 - Videography II  
ART271 - Digital Design II  
ART275 - Introduction to Graphic Design  
ART276 - Interactive Media and Design Solutions  
ART281 - Sculpture I  
ART282 - Sculpture II  
ART283 - Ceramics I  
ART284 - Ceramics II  
ART285 - Ceramics III  
ART286 - Ceramics IV  
ART288 - Studio

## Assoc Degree Nursing Lpn to Rn Department Programs

A45110RI - Associate Degree Nursing LPN to ADN

### Courses

NUR214 - Nursing Transition Concepts  
NUR221 - LPN to ADN Concepts I  
NUR223 - LPN to ADN Concepts II

## Assoc Fine Arts Music Department

### Programs

A10700 - Associate in Fine Arts in Music

P1072C - College Transfer - Associate in Fine Arts in  
Music Pathway

## Assoc Fine Arts Theatre Department

### Programs

A10800 - Associate in Fine Arts in Theatre

P1082C - College Transfer - Associate in Fine Arts in  
Theatre Pathway

## Assoc Fine Arts Visual Arts Department

Painting, Sculpting, etc.

### Programs

A10600 - Associate in Fine Arts in Visual Arts

P1062C - College Transfer - Associate in Fine Arts in  
Visual Arts Pathway

## Associate Degree Nursing Department

### Programs

A45110 - Associate Degree Nursing

P1032C - College Transfer - Associate in General  
Education Pathway

### 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

## Associate in Arts Department

### Programs

A10100 - Associate in Arts

A10100BA - Associate in Arts - Business  
Administration Track

## Associate in Engineering Department

### Programs

A10500 - Associate in Engineering

P1052C - College Transfer - Associate in Engineering

Pathway

## Associate in General Education Department

### Programs

A10300 - Associate in General Education

## Associate in Science Department

### Programs

A10400 - Associate in Science

## Automotive Customizing Tech Department

### Programs

C60190 - Automotive Customizing Technology

Certificate

C60190CP - Automotive Customizing Technology

Pathway

D60190 - Automotive Customizing Technology

Diploma

### Courses

AUC111 - Automotive Customizing Research

AUC112 - Automotive Custom Fabrication

AUC114 - Custom Fiberglass Skills

AUC115 - Glass Customizing Methods

AUC117 - Custom Airbrushing

AUT212 - Auto Shop Management

## Automotive Systems Technology Department

### Programs

A60160 - Automotive Systems Technology

C60160A - Automotive Systems Technology

Certificate

C60160CP - Automotive Systems Technology

Pathway

D60160 - Automotive Systems Technology Diploma

## Courses

AUT116 - Engine Repair  
AUT116A - Engine Repair Lab  
AUT123 - Powertrain Diagnosis & Service  
AUT141 - Suspension & Steering Systems  
AUT141A - Suspension & Steering Lab  
AUT151 - Brake Systems  
AUT151A - Brakes Systems Lab  
AUT163 - Advanced Automotive Electricity  
AUT163A - Advanced Automotive Electricity Lab  
AUT181 - Engine Performance 1  
AUT181A - Engine Performance 1 Lab  
AUT212 - Auto Shop Management  
AUT213 - Automotive Servicing 2  
AUT221 - Automatic Transmissions/Transaxles  
AUT221A - Automatic Transmissions/Transaxles Lab  
AUT231 - Manual Transmissions/Transaxles/Drive  
Trains  
AUT281 - Advanced Engine Performance  
TRN120 - Basic Transportation Electricity  
TRN145 - Advanced Transportation Electronics

## Baking and Pastry Arts Department

### Programs

A55130 - Baking and Pastry Arts  
C55130 - Baking and Pastry Arts Certificate  
C55130CP - Baking and Pastry Arts Pathway

### Courses

BPA120 - Petit Fours and Pastries  
BPA130 - European Cakes and Tortes  
BPA150 - Artisan & Specialty Bread  
BPA165 - Hot and Cold Desserts  
BPA210 - Cake Design and Decorating  
BPA220 - Confection Artistry  
BPA230 - Chocolate Artistry  
BPA230A - Chocolate Artistry Lab  
BPA240 - Plated Desserts  
BPA250 - Dessert and Bread Production  
BPA260 - Pastry and Baking Marketing

## Basic Law Enforcement Training Department

### Programs

C55120 - Basic Law Enforcement Training Certificate

### Courses

LET110 - Basic Law Enforcement Training (BLET)

## Boat Building Department

### Programs

C35120 - Boat Building Certificate

C35120CP - Boat Building Pathway

D35120 - Boat Building Diploma

### Courses

BTB101 - Boat Building I

BTB102 - Boat Building II

BTB103 - Yacht Joiner Practices I

BTB104 - Yacht Joiner Practices II

BTB105 - Yacht Repair/Renovation

BTB106 - Engine Install/Systems

BTB108 - Boat Plumbing Systems

BTB109 - Yacht Rigging

BTB111 - Fiberglass Boat Bldg II

BTB112 - Fiberglass Boat Repairs

DFT100 - Marine Drafting

## Boat Manufacture & Service Department

### Programs

D60330 - Boat Manufacture and Service Diploma

### Courses

BMS117 - Marine Spray Finishing

BMS118 - Basic Boat Operation

BTB107 - Boat Electrical Systems

BTB110 - Fiberglass Boat Bldg I

## Business Administration Department

### Programs

A25120 - Business Administration

A25120M - Business Administration - Marketing

A25120O - Business Administration - Operations  
Management

**C25120 - Business Administration - Customer Service Certificate**

**C25120A - Business Administration - Management and Supervision Certificate**

**C25120AP - Business Administration - Management and Supervision Pathway**

**C25120B - Business Administration - Banking and Finance Certificate**

**C25120BP - Business Administration - Banking and Finance Pathway**

**C25120CP - Business Administration Pathway**

**C25120D - Business Administration - Office Systems Certificate**

**C25120DP - Business Administration - Office Systems Pathway**

**C25120E - Business Administration - Entrepreneurship Certificate**

**C25120EP - Business Administration - Entrepreneurship Pathway**

**C25120G - Business Administration - International Business Certificate**

**C25120K - Business Administration - Insurance Property & Casualty Certificate**

**C25120L - Business Administration - Insurance Life & Accident Certificate**

**C25120M - Business Administration - Business Basics Certificate**

**C25120UP - Business Administration - Customer Service Pathway**

**D25120B - Business Administration - Insurance Diploma**

**D25120C - Business Administration - Entrepreneurship Diploma**

## Courses

**BAF110 - Principles of Banking**

**BAF111 - Teller Training**

**BAF232 - Consumer Lending**

**BAF234 - Residential Mortgage Lending**

**BUS110 - Introduction to Business**

**BUS115 - Business Law I**

**BUS125 - Personal Finance**

**BUS135 - Principles of Supervision**

**BUS137 - Principles of Management**

**BUS139 - Entrepreneurship I**

**BUS147 - Business Insurance**

**BUS225 - Business Finance**

**BUS228 - Business Statistics**

**BUS230 - Small Business Management**

**BUS240 - Business Ethics**

**BUS253 - Leadership and Management Skills**

**BUS270 - Professional Development**

**BUS285 - Business Management Issues**

**CIS111 - Basic PC Literacy**

**INS129 - Property and Casualty Insurance**



INT110 - International Business  
ISC131 - Quality Management  
ISC136 - Productivity Analysis I  
ISC210 - Operation and Production Planning  
ISC220 - Lean Manufacturing  
MKT120 - Principles of Marketing  
MKT220 - Advertising and Sales Promotion  
MKT221 - Consumer Behavior  
MKT223 - Customer Experience  
MKT224 - International Marketing  
MKT225 - Marketing Research  
MKT227 - Marketing Applications  
MKT232 - Social Media Marketing  
OMT110 - Introduction to Operations Management  
OMT112 - Materials Management  
OMT132 - ISO 9000 Standards  
OMT156 - Problem-Solving Skills  
OMT260 - Issues in Operations Management  
PMT110 - Introduction to Project Management

## Business Analytics Department

### Programs

A25350 - Business Analytics  
C25350 - Business Analytics Certificate  
C25350CP - Business Analytics Pathway  
D25350 - Business Analytics Diploma

### Courses

BAS120 - Introduction to Analytics  
BAS121 - Data Visualization  
BAS150 - Introduction to Analytical Programming  
BAS220 - Applied Analytical Programming  
BAS221 - Introduction to Predictive Analytics  
BAS230 - Applied Predictive Modeling  
BAS240 - Data Structures for Analytics  
BAS270 - Advanced Analytical Tools and Methods

## Cardiovascular Sonography Department

### Programs

A45160 - Cardiovascular Sonography  
D45160 - Cardiovascular Sonography Diploma

## Courses

CVS160 - Cardiovascular Sonography Clinical Education I

CVS161 - CVS Clinical Education II

CVS162 - CVS Clinical Education III

CVS163 - Echo I

CVS164 - Echo II

CVS260 - CVS Clinical Education IV

CVS261 - CVS Clinical Education V

CVS277 - Cardiovascular Topics

SON111 - Sonographic Physics

SON250 - Vascular Sonography

## Chemical Technology Department

### Programs

A20120 - Chemical Technology

C20120 - Chemical Technology Certificate

C20120CP - Chemical Technology Pathway

D20120 - Chemical Technology Diploma

### Courses

CTC110 - Chemical Safety and Technology

CTC114 - Wet Laboratory Techniques

CTC115 - Quality Control Laboratory

CTC145 - Advanced Laboratory Methods

CTC150 - Standards and Solutions

CTC210 - Forensic Laboratory

CTC235 - Food Chemistry

CTC240 - Instrumentation I: Spectroscopy

CTC250 - Instrumentation II: Chromatography

CTC260 - Chemical Technology Capstone

## Collision Repair & Refinishing Department

### Programs

C60130 - Collision Repair and Refinishing Technology Certificate

C60130CP - Collision Repair and Refinishing Technology Pathway

D60130 - Collision Repair and Refinishing Technology Diploma

### Courses

AUB111 - Painting & Refinishing I

AUB112 - Painting & Refinishing II

AUB114 - Special Finishes  
AUB121 - Non-Structural Damage I  
AUB122 - Non-Structural Damage II  
AUB131 - Structural Damage I  
AUB136 - Plastics & Adhesives  
AUB141 - Mechanical & Electrical Components I  
AUB162 - Autobody Estimating  
TRN130 - Introduction to Sustainable Transportation  
TRN140 - Transportation Climate Control  
TRN140A - Transportation Climate Control Lab  
TRN145 - Advanced Transportation Electronics  
TRN180 - Basic Welding for Transportation

## Community Spanish Interpreter Department

### Programs

A55370 - Community Spanish Interpreter  
C55370 - Community Spanish Interpreter Certificate  
C55370CP - Community Spanish Interpreter Pathway

### Courses

SPA111 - Elementary Spanish I  
SPA112 - Elementary Spanish II  
SPA120 - Spanish for the Workplace  
SPA141 - Culture and Civilization  
SPA161 - Cultural Immersion  
SPA181 - Spanish Lab 1  
SPA182 - Spanish Lab 2  
SPA211 - Intermediate Spanish I  
SPA212 - Intermediate Spanish II  
SPA215 - Spanish Phonetics/Structure  
SPA221 - Spanish Conversation  
SPA231 - Reading and Composition  
SPA281 - Spanish Lab 3  
SPA282 - Spanish Lab 4  
SPI113 - Introduction to Spanish Interpreter  
SPI114 - Ana.Skills Spanish Inter.  
SPI213 - Review of Grammar  
SPI214 - Introduction to Translation  
SPI221 - Consecutive Interp I  
SPI241 - Legal Interpreting I  
SPI243 - Medical Interpreting I  
SPI245 - Community Interpreting I

## Computed Tomography & MRI Tech Department

### Programs

C45200CT - Computed Tomography Certificate

C45200MR - Magnetic Resonance Imaging Certificate

### Courses

180 - PTA Clinical Ed Intro

CAT210 - CT Physics & Equipment

CAT211 - CT Procedures

CAT231 - CT Clinical Practicum

MRI210 - MRI Physics and Equipment

MRI211 - MRI Procedures

MRI231 - MRI Clinical Practicum

## Computer-Integrated Machining Department

### Programs

A50210 - Computer-Integrated Machining

C50210 - Computer-Integrated Machining Certificate

C50210CP - Computer-Integrated Machining  
Pathway

### Courses

DFT119 - Basic CAD

MAC111 - Machining Technology I

MAC112 - Machining Technology II

MAC113 - Machining Technology III

MAC114 - Introduction to Metrology

MAC121 - Introduction to CNC

MAC122 - CNC Turning

MAC124 - CNC Milling

MAC131 - Blueprint Reading-Machining I

MAC132 - Blueprint Reading-Machining II

MAC152 - Advanced Machining Calculations

MAC222 - Advanced CNC Turning

MAC224 - Advanced CNC Milling

MAC233 - Appl in CNC Machining

MAC234 - Advanced Multi-Axis Machining

MAC241 - Jigs & Fixtures I

MAC245 - Mold Construction I

MAC248 - Production Procedures

MEC231 - Computer-Aided Manufacturing I

MEC232 - Computer-Aided Manufacturing II

# Construction Management Tech Department

## Programs

A35190 - Construction Management Technology

C35190 - Construction Management Technology  
Certificate

C35190A - Construction Management Technology -  
Project Management Certificate

C35190CP - Construction Management Technology  
Pathway

C35190F - Construction Management Technology -  
Framing Certificate

C35190FP - Construction Management Technology -  
Framing Pathway

C35190S - Construction Management Technology -  
Building Performance Certificate

## Courses

ARC225 - Architectural Building Information  
Modeling I

ARC225A - Architectural Building Information  
Modeling I Lab

BPR130 - Print Reading-Construction

CMT112 - Construction Management I

CMT120 - Codes and Inspections

CMT210 - Construction Management Fundamentals

CMT212 - Total Safety Performance

CMT214 - Planning and Scheduling

CMT218 - Human Relations Issues

CST111 - Construction I

CST112 - Construction II

CST150 - Building Science

CST238 - Weatherization

CST241 - Planning/Estimating I

PTE110 - Pathways to Employment-Construction

SST140 - Green Building and Design Concepts

# Cosmetology Department

## Programs

A55140 - Cosmetology

C55140 - Cosmetology Certificate

C55140CP - Cosmetology Pathway

D55140 - Cosmetology Diploma

## 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  
COS224 - Trichology & Chemistry  
COS240 - Contemporary Design  
COS260 - Design Applications  
COS271 - Instructor Concepts I  
COS272 - Instructor Practicum I  
COS273 - Instructor Concepts II  
COS274 - Instructor Practicum II

## Criminal Justice Technology Department

### Programs

A55180 - Criminal Justice Technology  
C55180 - Criminal Justice Technology Certificate  
C55180CP - Criminal Justice Technology Pathway  
C55180L - Criminal Justice Technology - Leadership Certificate  
C55180S - Criminal Justice Technology - Industrial Security Certificate

### Courses

|                                                  |                                                         |
|--------------------------------------------------|---------------------------------------------------------|
| CJC111 - Introduction to Criminal Justice        | CJC170 - Critical Incident Management for Public Safety |
| CJC112 - Criminology                             | CJC212 - Ethics & Community Relations                   |
| CJC113 - Juvenile Justice                        | CJC213 - Substance Abuse                                |
| CJC114 - Investigative Photography               | CJC214 - Victimology                                    |
| CJC120 - Interviews/Interrogations               | CJC215 - Organization & Administration                  |
| CJC121 - Law Enforcement Operations              | CJC221 - Investigative Principles                       |
| CJC122 - Community Policing                      | CJC222 - Criminalistics                                 |
| CJC131 - Criminal Law                            | CJC225 - Crisis Intervention                            |
| CJC132 - Court Procedure & Evidence              | CJC231 - Constitutional Law                             |
| CJC141 - Corrections                             | CJC232 - Civil Liability                                |
| CJC151 - Introduction to Loss Prevention         | CJC233 - Correctional Law                               |
| CJC152 - Introduction to Security and Protective | CJC240 - Law Enforcement Management & Supervision       |
| CJC153 - Private Security Operations             |                                                         |
| CJC154 - Private Security Business               |                                                         |
| CJC160 - Terrorism: Underlying Issues            |                                                         |

## Culinary Arts Department

### Programs

A55150 - Culinary Arts

C55150 - Culinary Arts Certificate

C55150CP - Culinary Arts Pathway

D55150 - Culinary Arts Diploma

### Courses

CUL110 - Sanitation and Safety

CUL110A - Sanitation and Safety Lab

CUL112 - Nutrition for Foodservice

CUL120 - Purchasing

CUL120A - Purchasing Lab

CUL130 - Menu Design

CUL135 - Food and Beverage Service

CUL135A - Food and Beverage Service Lab

CUL140 - Culinary Skills I

CUL142 - Fundamentals of Food

CUL150 - Food Science

CUL160 - Baking I

CUL170 - Garde Manger I

CUL214 - Wine Appreciation

CUL230 - Global Cuisines

CUL240 - Culinary Skills II

CUL245 - Contemporary Cuisines

CUL250 - Classical Cuisine

CUL260 - Baking II

CUL270 - Garde Manger II

CUL275 - Catering Cuisine

CUL280 - Pastry and Confections

CUL283 - Farm-To-Table

CUL285 - Competition Fundamentals

NUT110 - Nutrition

## Cyber Crime Technology Department

### Programs

A55210 - Cyber Crime Technology

A55210CS - Cyber Crime Technology - Cyber Security

C55210 - Cyber Crime Technology Certificate

C55210A - Cyber Crime Technology - Ethical Hacker  
Certificate

C55210CP - Cyber Crime Technology Pathway

C55210N - Cyber Crime Technology - Cyber Security  
and Networking Certificate



## Courses

CCT110 - Introduction to Cyber Crime  
CCT112 - Ethics & High Technology  
CCT121 - Computer Crime Investigation  
CCT231 - Technology Crimes & Law  
CCT250 - Network Vulnerabilities I  
CCT251 - Network Vulnerabilities II  
CCT260 - Mobile Phone Examination  
CCT289 - Capstone Project  
CET250 - Computer Forensics II

## Dental Assisting Department

### 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 Department

### Programs

A45260 - Dental Hygiene

### Courses

|                                           |                                    |
|-------------------------------------------|------------------------------------|
| DEN110 - Orofacial Anatomy                | DEN141 - Dental Hygiene Clinic II  |
| DEN111 - Infection/Hazard Control         | DEN220 - Dental Hygiene Theory III |
| DEN112 - Dental Radiography               | DEN221 - Dental Hygiene Clinic III |
| DEN120 - Dental Hygiene Preclinic Lecture | DEN222 - General & Oral Pathology  |
| DEN121 - Dental Hygiene Preclinical Lab   | DEN223 - Dental Pharmacology       |
| DEN123 - Nutrition/Dental Health          | DEN224 - Materials and Procedures  |
| DEN124 - Periodontology                   | DEN230 - Dental Hygiene Theory IV  |
| DEN125 - Dental Office Emergencies        | DEN231 - Dental Hygiene Clinic IV  |
| DEN130 - Dental Hygiene Theory I          | DEN232 - Community Dental Health   |
| DEN131 - Dental Hygiene Clinic I          | DEN233 - Professional Development  |
| DEN140 - Dental Hygiene Theory II         |                                    |

# Diesel & Heavy Equipment Tech Department

## Programs

A60460 - Diesel and Heavy Equipment Technology  
C60460 - Diesel and Heavy Equipment Technology  
Certificate  
C60460CP - Diesel and Heavy Equipment Technology  
Pathway  
D60460 - Diesel and Heavy Equipment Technology  
Diploma  
D60460PG - Onsite Diesel Power Generation  
Technology Diploma

## Courses

HET110 - Diesel Engines  
HET114 - Power Trains  
HET115 - Electronic Engines  
HET125 - Preventive Maintenance  
HET128 - Medium/Heavy Duty Tune Up  
HET134 - Diesel Fuel and Power System  
HET229 - Brakes and Steering  
HET230 - Air Brakes  
HYD112 - Hydraulics-Medium and Heavy Duty  
MRN121 - Marine Engines  
MRN147 - Marine Power Trains  
MRN150 - Advanced Marine Electrical Systems  
TRN110 - Introduction to Transport Technology  
TRN120 - Basic Transportation Electricity

# Early Childhood Associate Department

## Programs

|                                                     |                                                   |
|-----------------------------------------------------|---------------------------------------------------|
| A55220C - Early Childhood Education - Career Track  | C55220PE - Early Childhood Education - Preschool  |
| A55220L - Early Childhood Education - B-K Licensure | Certificate                                       |
| Transfer                                            | C55220PP - Early Childhood Education - Preschool  |
| A55220NL - Early Childhood Education -              | Pathway                                           |
| Non-Licensure Transfer                              | C55490 - Elementary Education Residency Licensure |
| C55190 - High School Adjunct Instructor Certificate | Certificate                                       |
| C55220 - Early Childhood Education - Administration | D55220 - Early Childhood Education Diploma        |
| Certificate                                         |                                                   |
| C55220IP - Early Childhood Education - Infant/      |                                                   |
| Toddler Care Pathway                                |                                                   |
| C55220IT - Early Childhood Education - Infant/      |                                                   |
| Toddler Care Certificate                            |                                                   |

## Courses

EDU119 - Introduction to Early Childhood Education  
EDU131 - Child, Family, and Community  
EDU144 - Child Development I  
EDU145 - Child Development II  
EDU146 - Child Guidance  
EDU151 - Creative Activities  
EDU151A - Creative Activities Lab  
EDU153 - Health, Safety and Nutrition  
EDU162 - Observation and Assessment in Early Childhood Education  
EDU163 - Classroom Management and Instruction  
EDU177 - Instructional Methods  
EDU188 - Trends and Policies in Early Childhood  
EDU221 - Children With Exceptionalities  
EDU234 - Infants, Toddlers, and Twos  
EDU234A - Infants/Toddlers and Twos Lab  
EDU235 - School-Age Development and Programs  
EDU243 - Learning Theory  
EDU251 - Exploration Activities  
EDU251A - Exploration Activities Lab  
EDU259 - Curriculum Planning  
EDU261 - Early Childhood Administration I  
EDU262 - Early Childhood Administration II  
EDU270 - Effective Instructional Environments  
EDU271 - Educational Technology  
EDU272 - Technology, Data, and Assessment  
EDU277 - Integrated Curriculum and Instructional Strategies: Math/Science  
EDU278 - Integrated Curriculum and Instructional Strategies: Social Studies/ELA  
EDU280 - Language and Literacy Experiences  
EDU280A - Literacy Experiences Lab  
EDU283 - Educator Preparation Practicum  
EDU284 - Early Childhood Capstone Practicum

## Electrical Systems Tech Department Programs

A35130 - Electrical Systems Technology  
C35130 - Electrical Systems Technology Certificate  
C35130CP - Electrical Systems Technology Pathway  
D35130 - Electrical Systems Technology Diploma

## Courses

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  
ELC121 - Electrical Estimating  
ELC128 - Introduction to Programmable Logic  
Controller  
ELC213 - Instrumentation  
ELC220 - Photovoltaic System Technology  
ELC221 - Advanced Photovoltaic System Designs  
HYD110 - Hydraulics/Pneumatics I  
ISC112 - Industrial Safety

## Electronics Engineering Tech Department

### Programs

A40200 - Electronics Engineering Technology  
C40200 - Electronics Engineering Technology  
Certificate  
C40200C - Electronics Engineering - Industrial  
Controls Certificate  
C40200CP - Electronics Engineering Technology  
Pathway  
C40200DP - Electronics Engineering Technology -  
Drone Systems Pathway  
C40200DS - Electronics Engineering Technology -  
Drone Systems Certificate  
C40200L - Electronics Engineering - LAN Cabling  
Certificate  
D40200 - Electronics Engineering Technology  
Diploma

### Courses

ATR212 - Industrial Robots  
ELC125 - Diagrams and Schematics  
ELC131 - Circuit Analysis I  
ELC133 - Circuit Analysis II  
ELC228 - Programmable Logic Controllers  
Applications  
ELN131 - Analog Electronics I

ELN132 - Analog Electronics II  
ELN133 - Digital Electronics  
ELN152 - Fabrication Techniques  
ELN231 - Industrial Controls  
ELN234 - Communication Systems  
ELN236 - Fiber Optics and Lasers  
ELN275 - Troubleshooting

**UAS110 - Introduction to Unmanned Aircraft**

**Systems Operations**

**UAS111 - Unmanned Aircraft Systems**

**UAS115 - Certification for Small Unmanned Aircraft  
Systems**

## Emergency Management Department

### Programs

**A55460 - Emergency Management**

**C55460 - Emergency Management Certificate**

**C55460A - Emergency Management - Administration  
Certificate**

**C55460CP - Emergency Management Pathway**

### Courses

**EPT120 - Sociology of Disaster**

**EPT124 - Emergency Management Services Law &  
Ethics**

**EPT130 - Mitigation & Preparedness**

**EPT140 - Emergency Management**

**EPT150 - Incident Management**

**EPT210 - Response & Recovery**

**EPT220 - Terrorism and Emergency Management**

**EPT230 - Emergency Planning**

**EPT275 - Emergency Operations Center Management**

## Emergency Medical Science Department

### Programs

**A45340 - Emergency Medical Science**

### Courses

**EMS110 - EMT**

**EMS122 - EMS Clinical Practicum I**

**EMS125 - EMS Instructor Methodology**

**EMS130 - Pharmacology**

**EMS131 - Advanced Airway Management**

**EMS140 - Rescue Scene Management**

**EMS160 - Cardiology I**

**EMS210 - Advanced Patient Assessment**

**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**

# Esthetics Technology Department

## Programs

C55230 - Esthetics Technology Certificate

## Courses

COS119 - Esthetics Concepts I

COS120 - Esthetics Salon I

COS125 - Esthetics Concepts II

COS126 - Esthetics Salon II

# Film & Video Production Tech Department

## Programs

A30140 - Film and Video Production Technology

C30140 - Film and Video Production Technology  
Certificate

C30140CP - Film and Video Production Technology  
Pathway

D30140 - Film and Video Production Technology  
Diploma

## Courses

DEA111 - Introduction to DEAT

FVP111 - Introduction to Film and Video

FVP112 - Art Department Operations I

FVP113 - Grip & Electrical I

FVP114 - Camera & Lighting I

FVP115 - Camera & Lighting II

FVP116 - Sound Operations

FVP117 - Make-Up & Wardrobe

FVP120 - Art Dept. Operations II

FVP130 - Grip and Electrical II

FVP212 - Production Techniques I

FVP213 - Production Techniques II

FVP215 - Production Management

FVP220 - Editing I

FVP221 - Editing II

FVP223 - Postproduction Sound Design

FVP227 - Multimedia Production

FVP240 - Introduction to Screenwriting

FVP250 - Production Specialties I

FVP251 - Production Specialties II

# Fire Protection Technology Department

## Programs

A55240 - Fire Protection Technology

C55240CP - Fire Protection Technology Pathway

## Courses

EPT260 - Business Continuity

FIP120 - Introduction to Fire Protection

FIP124 - Fire Prevention & Public Education

FIP128 - Detection and Investigation

FIP132 - Building Construction

FIP136 - Inspections and Codes

FIP152 - Fire Protection Law

FIP156 - Computers in Fire Service

FIP162 - Firefighter Safety and Wellness

FIP164 - OSHA Standards

FIP220 - Fire Fighting Strategies

FIP221 - Advanced Fire Fighting Strategies

FIP228 - Local Government Finance

FIP229 - Fire Dynamics and Combustion

FIP240 - Fire Service Supervision

FIP256 - Municipal Public Relations

FIP276 - Managing Fire Services

# Graphic Design Department

## Programs

A30100 - Graphic Design

C30100 - Graphic Design Certificate

C30100A - Graphic Design - Animation & Illustration  
Certificate

C30100CP - Graphic Design Pathway

## Courses

GRD110 - Typography I

GRD131 - Illustration I

GRD132 - Illustration II

GRD142 - Graphic Design II

GRD151 - Computer Design Basics

GRD152 - Computer Design Technology

GRD241 - Graphic Design III

GRD271 - Multimedia and Video I

GRD275 - Animation I

GRD280 - Portfolio Design



# Health & Fitness Science Department

## Programs

A45630 - Health and Fitness Science

A45630E - Health and Fitness Science - Exercise  
Science

A45630H - Health and Fitness Science - Healthful  
Living & Fitness Education

C45630CP - Health and Fitness Science Pathway

## Courses

HEA110 - Personal Health/Wellness

HEA112 - First Aid & CPR

HEA120 - Community Health

HEA130 - Health-Adult Sexuality

HFS110 - Exercise Science

HFS111 - Fitness & Exercise Testing I

HFS116 - Prevention & Care of Exercise Injuries

HFS118 - Fitness Facility Management

HFS120 - Group Exercise Instruction

HFS210 - Personal Training

HFS212 - Exercise Programming

HFS218 - Lifestyle Change & Wellness

PED110 - Fit and Well for Life

PED113 - Aerobics I

PED117 - Weight Training I

PED118 - Weight Training II

PED119 - Circuit Training

PED120 - Walking for Fitness

PED122 - Yoga I

PED123 - Yoga II

PED125 - Self-Defense: Beginning

PED128 - Golf-Beginning

PED129 - Golf-Intermediate

PED130 - Tennis-Beginning

PED131 - Tennis-Intermediate

PED143 - Volleyball-Beginning

PED145 - Basketball-Beginning

PED149 - Flag Football

PED165 - Sport Science As a Career

PED170 - Backpacking

PED172 - Outdoor Living

PED210 - Team Sports

PED211 - New Games

PED216 - Indoor Cycling

PED219 - Disc Golf

PED233 - Ju-Jitsu

PED235 - Tai Chi

PED252 - Officiating Baseball and Softball

PED254 - Coaching Basketball

PED256 - Coaching Baseball

PED259 - Prevention & Care of Athletic Injuries

# Hospitality Management Department

## Programs

A25110 - Hospitality Management  
C25110 - Hospitality Management Certificate  
C25110A - Hospitality Management - Lodging  
Certificate  
C25110B - Hospitality Management - Front of House  
Certificate  
C25110CP - Hospitality Management Pathway  
D25110 - Hospitality Management - Lodging  
Professional Diploma  
D25110A - Hospitality Management - Food Service  
Entrepreneur Diploma

## Courses

HRM110 - Introduction to Hospitality and Tourism  
HRM115 - Housekeeping  
HRM115A - Housekeeping Lab  
HRM120 - Front Office Procedures  
HRM120A - Front Office Procedures Lab  
HRM124 - Guest Service Management  
HRM130 - Bed and Breakfast Management  
HRM135 - Facilities Management  
HRM140 - Legal Issues-Hospitality  
HRM150 - Training for Hospitality  
HRM160 - Information Systems for Hospitality  
HRM180 - The Business of Tourism  
HRM210 - Meetings and Event Planning  
HRM215 - Restaurant Management  
HRM215A - Restaurant Management Lab  
HRM220 - Cost Control-Food and Beverage  
HRM220A - Cost Control-Food & Bev Lab  
HRM225 - Beverage Management  
HRM228 - Mixology  
HRM230 - Club & Resort Management  
HRM240 - Marketing for Hospitality  
HRM245 - Human Resource Management-Hospitality  
HRM260 - Procurement for Hospitality  
HRM275 - Leadership-Hospitality  
HRM280 - Management Problems-Hospitality  
HRM285 - Service Projects-Hospitality

# Information Technology Department

## Programs

A25590 - Information Technology  
A25590N - Information Technology - Networking  
A25590S - Information Technology - Software Development  
A25590SA - Information Technology - Systems Administration  
C25590C - Information Technology - Cybersecurity & Networking Certificate  
C25590CP - Information Technology - Cyber Security Pathway  
C25590E - Information Technology - Software Development Certificate  
C25590EP - Information Technology - Software Development Pathway  
C25590F - Information Technology - Operating Systems Administration Certificate  
C25590FP - Information Technology - Operating Systems Administration Pathway  
C25590W - Information Technology - Web Designer Certificate  
C25590WP - Information Technology - Web Designer Pathway  
D25590 - Information Technology Diploma

## Courses

|                                                |                                                    |
|------------------------------------------------|----------------------------------------------------|
| CET125 - Voice and Data Cabling                | CSC251 - Advanced JAVA Programming                 |
| CET130 - Operating Systems Principles          | CSC256 - Software Quality Assurance                |
| CET150 - Computer Forensics I                  | CTI110 - Web, Programming, and Database Foundation |
| CET172 - Internet Technologies                 | CTI120 - Network and Security Foundation           |
| CET245 - Internet Servers                      | CTI175 - Introduction to Wireless Technology       |
| CIS110 - Introduction to Computers             | CTI240 - Virtualization Administration I           |
| CIS115 - Introduction to Programming and Logic | CTI241 - Virtualization Administration II          |
| CSC120 - Computing Fundamentals I              | CTS115 - Information Systems Business Concepts     |
| CSC130 - Computing Fundamentals II             | CTS120 - Hardware/Software Support                 |
| CSC134 - C++ Programming                       | CTS130 - Spreadsheet                               |
| CSC151 - JAVA Programming                      | CTS220 - Advanced Hardware/Software Support        |
| CSC174 - Server-Side Javascript                | CTS240 - Project Management                        |
| CSC227 - Cloud Application Development         | CTS288 - Professional Practices in IT              |
| CSC234 - Advanced C++ Programming              | DBA110 - Database Concepts                         |
| CSC239 - Advanced Visual BASIC Programming     | DBA120 - Database Programming I                    |
| CSC249 - Data Structure & Algorithms           |                                                    |

DBA210 - Database Administration  
DME110 - Introduction to Digital Media  
ELN238 - Advanced LANs  
NET110 - Networking Concepts  
NET125 - Introduction to Networks  
NET126 - Switching and Routing  
NET225 - Enterprise Networking  
NET226 - Network Programmability  
NOS110 - Operating Systems Concepts  
SEC110 - Security Concepts  
SEC160 - Security Administration I  
SEC175 - Perimeter Defense  
TNE255 - Network Servers  
WEB111 - Introduction to Web Graphics  
WEB115 - Web Markup and Scripting  
WEB151 - Mobile Application Development I  
WEB210 - Web Design  
WEB213 - Internet Marketing and Analytics

## Interior Design Department

### Programs

A30220 - Interior Design  
C30220 - Interior Design Certificate  
C30220CP - Interior Design Pathway  
D30220 - Interior Design - Kitchen and Bath Design  
Diploma

### Courses

|                                                     |                                                  |
|-----------------------------------------------------|--------------------------------------------------|
| DES110 - Architectural Graphics                     | DES242 - Kitchen and Bath Design                 |
| DES111 - Creative Problem Solving                   | DES243 - Advanced Kitchen and Bath Design        |
| DES112 - Building and Construction Systems          | DES255 - History of Interiors and Furnishings I  |
| DES120 - CAD for Interior Design                    | DES256 - History of Interiors and Furnishings II |
| DES125 - Visual Presentation I                      | DES260 - Materials Calculation / Interior Design |
| DES130 - Digital Applications and Interior Design   | DES265 - Lighting/Interior Design                |
| DES135 - Principles and Elements of Design I        | DES285 - Capstone/Interior Design                |
| DES136 - Principles and Elements of Design II       |                                                  |
| DES210 - Professional Practices for Interior Design |                                                  |
| DES220 - Interior Design Fundamentals               |                                                  |
| DES225 - Textiles for Interiors                     |                                                  |
| DES230 - Residential Design I                       |                                                  |
| DES235 - Products                                   |                                                  |
| DES238 - Sustainable Interiors                      |                                                  |
| DES240 - Commercial and Contract Design I           |                                                  |
| DES241 - Commercial/Contract Design II              |                                                  |

# Interpreter Education Department

## Programs

A55300 - Interpreter Education

## Courses

ASL111 - Elementary ASL I

ASL112 - Elementary ASL II

ASL181 - ASL Lab 1

ASL182 - ASL Lab 2

ASL211 - Intermediate ASL I

ASL212 - Intermediate ASL II

ASL221 - Advanced American Sign Language I

ASL250 - Linguistics of American Sign Language

ASL281 - ASL Lab 3

ASL282 - ASL Lab 4

IPP111 - Introduction to Interpretation

IPP112 - Comparative Cultures

IPP130 - Analytical Skills for Interpreting

IPP152 - ASL/English Translation

IPP161 - Consecutive Interpreting

IPP221 - Simultaneous Interpreting I

IPP224 - ASL to English Interpretation

IPP240 - Ethical Standards and Practices

# Landscape Gardening Department

## Programs

A15260 - Landscape Gardening

C15260 - Landscape Gardening & Horticulture

Science Certificate

C15260CP - Landscape Gardening & Horticulture

Science Pathway

C15260HP - Landscape Gardening & Horticulture

Production Certificate

C15260LD - Landscape Gardening - Design

Certificate

C15260R - Landscape Gardening - Retention Pond

Management Certificate

C15260S - Landscape Gardening - Sustainable

Gardening Certificate

C15260SP - Landscape Gardening - Sustainable

Gardening Pathway

## Courses

AGR139 - Introduction to Sustainable Agriculture  
HOR112 - Landscape Design I  
HOR114 - Landscape Construction  
HOR118 - Equipment Operation and Maintenance  
HOR124 - Nursery Operations  
HOR134 - Greenhouse Operations  
HOR160 - Plant Materials I  
HOR161 - Plant Materials II  
HOR162 - Applied Plant Science  
HOR164 - Horticultural Pest Management  
HOR166 - Soils and Fertilizers  
HOR168 - Plant Propagation  
HOR213 - Landscape Design II  
LSG111 - Basic Landscape Technique  
LSG121 - Fall Gardening Lab  
LSG122 - Spring Gardening Lab  
LSG123 - Summer Gardening Lab  
LSG232 - Garden Management  
TRF110 - Introduction Turfgrass Cultivation & Id And Identification

## Marine Technology Department

### Programs

A15320 - Marine Technology  
C15320CP - Marine Technology Pathway

### Courses

|                                      |                                                     |
|--------------------------------------|-----------------------------------------------------|
| ELN114 - Marine Electronics          | MSC210 - Marine Environmental Sampling and Analysis |
| MSC110 - Training Cruise I           | MSC216 - Training Cruise IV                         |
| MSC112 - Training Cruise II          | MSC218 - Training Cruise V                          |
| MSC114 - Training Cruise III         | MSC220 - Marine GIS                                 |
| MSC122 - Boat Handling/Seamanship    | MSC254 - Marine Data Processing                     |
| MSC124 - Industrial Skills           | MSC256 - Cartography/Hydrography Surveying          |
| MSC126 - Marine Engines              | MSC276 - Marine Vertebrate Zoology                  |
| MSC132 - Fishing Gear Technology I   |                                                     |
| MSC134 - Fishing Gear Technology II  |                                                     |
| MSC150 - Marine Navigation           |                                                     |
| MSC152 - Marine Instrumentation      |                                                     |
| MSC160 - Oceanography                |                                                     |
| MSC172 - Marine Biology              |                                                     |
| MSC174 - Marine Invertebrate Zoology |                                                     |
| MSC180 - Water Analysis              |                                                     |

# Mechanical Engineering Tech Department

## Programs

A40320 - Mechanical Engineering Technology

C40320C - Mechanical Engineering Technology

Certificate

C40320CP - Mechanical Engineering Technology

Pathway

C40320D - Mechanical Engineering Technology - CAD

Drafting Certificate

C40320DP - Mechanical Engineering Technology -

CAD Drafting Pathway

C40320P - Mechanical Engineering Technology - 3D

Printing Certificate

C40320PP - Mechanical Engineering Technology - 3D

Printing Pathway

D40320 - Mechanical Engineering Technology

Diploma

## Courses

ATR112 - Introduction to Automation

DDF211 - Design Process I

DDF212 - Design Process II

DFT111 - Technical Drafting I

DFT111A - Technical Drafting I Lab

DFT112 - Technical Drafting II

DFT112A - Technical Drafting II Lab

DFT151 - CAD I

DFT152 - CAD II

DFT154 - Introduction to Solid Modeling

DFT231 - Jig & Fixture Design

DFT254 - Intermediate Solid Modeling & Rendering

EGR110 - Introduction to Engineering Technology

EGR251 - Statics

EGR252 - Strength of Materials

ELC111 - Introduction to Electricity

MEC111 - Machine Processes I

MEC130 - Mechanisms

MEC145 - Manufacturing Materials I

TDP110 - Introduction to Three Dimensional Printing

TDP140 - Precision Three Dimensional Printing

## Mechatronics Engineering Tech Department

### Programs

A40350 - Mechatronics Engineering Technology

C40350 - Mechatronics Engineering Technology -

Automation Certificate

C40350A - Mechatronics Engineering Technology -

Advanced Manufacturing Certificate

C40350CP - Mechatronics Engineering Technology

Pathway

C40350MP - Mechatronics Engineering Technology -

Automation Pathway

### Courses

ATR280 - Robotic Fundamentals

HYD110 - Hydraulics/Pneumatics I

MNT110 - Introduction to Maintenance Procedures

## Medical Assisting Department

### Programs

A45400 - Medical Assisting

C45400CP - Medical Assisting Pathway

D45400 - Medical Assisting Diploma

### Courses

MED110 - Orientation to Medical Assisting

MED116 - Introduction to Anatomy & Physiology

MED118 - Medical Law and Ethics

MED130 - Administrative Office Procedures I

MED131 - Administrative Office Procedures II

MED136 - Preventive Health

MED140 - Examining Room Procedures I

MED150 - Laboratory Procedures I

MED260 - MED Clinical Practicum

MED264 - Medical Assisting Overview

MED270 - Symptomatology

MED272 - Drug Therapy

MED274 - Diet Therapy/Nutrition

MED276 - Patient Education

## Medical Laboratory Technology Department

### Programs

A45420 - Medical Laboratory Technology



## Courses

MLT110 - Introduction to MLT  
MLT111 - Urinalysis & Body Fluids  
MLT115 - Laboratory Calculations  
MLT120 - Hematology/Hemostasis I  
MLT126 - Immunology and Serology  
MLT127 - Transfusion Medicine  
MLT130 - Clinical Chemistry I  
MLT140 - Introduction to Microbiology  
MLT217 - Professional Issues  
MLT220 - Hematology/Hemostasis II  
MLT230 - Clinical Chemistry II  
MLT240 - Special Clinical Microbiology  
MLT254 - MLT Practicum I  
MLT266 - MLT Practicum II  
MLT276 - MLT Practicum III  
MLT280 - Special Practice Lab

## Medical Office Administration Department

### Programs

A25310 - Medical Office Administration  
C25310 - Medical Office Administration Certificate  
C25310CP - Medical Office Administration Pathway

### Courses

HBI110 - Issues and Trends in Healthcare Business  
Informatics  
HMT110 - Introduction to Healthcare Management  
MED120 - Survey of Medical Terminology  
MED121 - Medical Terminology I  
MED122 - Medical Terminology II  
OST136 - Word Processing  
OST148 - Medical Insurance and Billing  
OST149 - Medical Legal Issues  
OST164 - Office Editing  
OST247 - Procedure Coding  
OST248 - Diagnostic Coding  
OST249 - Medical Coding Certification Preparation  
OST260 - Advanced Coding Methodologies  
OST264 - Medical Auditing  
OST265 - Healthcare Compliance and Regulations  
OST280 - Electronic Health Records  
OST288 - Medical Office Administration Capstone

# Medical Sonography Department

## Programs

A45440 - Medical Sonography

## Courses

SON110 - Introduction to Sonography

SON111 - Sonographic Physics

SON120 - Sonography Clinical Education I

SON121 - Sonography Clinical Education II

SON130 - Abdominal Sonography I

SON131 - Abdominal Sonography II

SON140 - Gynecological Sonography

SON220 - Sonography Clinical Education III

SON221 - Sonography Clinical Education IV

SON225 - Case Studies

SON241 - Obstetrical Sonography I

SON242 - Obstetrical Sonography II

SON250 - Vascular Sonography

SON272 - Advanced Pathology

SON289 - Sonographic Topics

# Neurodiagnostic Technology Department

## Programs

A45320 - Neurodiagnostic Technology

## Courses

NDT110 - Neuroscience/Pathological Conditions

NDT111 - Laboratory Management

NDT111A - NDT Laboratory Basics

NDT112 - Instrument/Record Methods

NDT113 - Clinical Correlates

NDT114 - Special Procedures

NDT115 - NDT Laboratory Practice

NDT117 - EEG Clinical Experience

NDT118 - NDT Laboratory Practicum II

NDT218 - NDT Clinical Experience

NDT220 - IONM and EP

NDT221 - Long Term Monitoring

NDT222 - Nerve Conduction Studies

## Nuclear Technology Department

### Programs

A50460 - Nuclear Technology

C50460 - Nuclear Technology Certificate

C50460CP - Nuclear Technology Pathway

### Courses

EGR115 - Introduction to Technology

ISC121 - Environmental Health & Safety

ISC130 - Introduction to Quality Control

NUC110 - Nuclear Reactor Systems

NUC120 - Nuclear Reactor Theory

NUC130 - Applied NDE-Nuclear

NUC210 - Nuclear Steam Plant Systems

NUC220 - Nuclear Primary Plant Systems

WLD143 - Welding Metallurgy

## Occupational Therapy Assistant Department

### Programs

A45500 - Occupational Therapy Assistant

### Courses

OTA110 - Fundamentals of OT

OTA120 - OT Media I

OTA130 - Assessment Skills

OTA140 - Professional Skills I

OTA150 - Pediatric Concepts and Interventions

OTA161 - Fieldwork I-Placement 1

OTA162 - Fieldwork I-Placement 2

OTA163 - Fieldwork I-Placement 3

OTA170 - Physical Conditions

OTA180 - Psychosocial Conditions

OTA220 - OT Media II

OTA240 - Professional Skills II

OTA250 - Adult Concepts and Interventions

OTA260 - Level II Fieldwork Placement 1

OTA261 - Level II Fieldwork Placement 2

## Paralegal Technology Department

### Programs

A25380 - Paralegal Technology

C25380C - Paralegal Technology - Civil Litigation  
Certificate

**C25380CP - Paralegal Technology - Civil Litigation**

**Pathway**

**C25380E - Paralegal Technology - Elder Law**

**Certificate**

**C25380R - Paralegal Technology - Real Property**

**Certificate**

**D25380 - Paralegal Technology Diploma**

## Courses

**LEX110 - Introduction to Paralegal Study**

**LEX120 - Legal Research/Writing I**

**LEX121 - Legal Research/Writing II**

**LEX130 - Civil Injuries**

**LEX140 - Civil Litigation I**

**LEX141 - Civil Litigation II**

**LEX150 - Commercial Law I**

**LEX151 - Commercial Law II**

**LEX160 - Criminal Law & Procedure**

**LEX170 - Administrative Law**

**LEX210 - Real Property I**

**LEX211 - Real Property II**

**LEX240 - Family Law**

**LEX250 - Wills, Estates, & Trusts**

**LEX260 - Bankruptcy and Collections**

**LEX270 - Law Office Management/Technology**

**LEX273 - North Carolina Certified Paralegal Review**

**Course**

**LEX280 - Ethics & Professionalism**

**LEX288 - Elder Law**

## Pharmacy Technology Department

### Programs

**A45580 - Pharmacy Technology**

**D45580 - Pharmacy Technology Diploma**

### Courses

**PHM110 - Introduction to Pharmacy**

**PHM111 - Pharmacy Practice I**

**PHM115 - Pharmacy Calculations**

**PHM115A - Pharmacy Calculations Lab**

**PHM118 - Sterile Products**

**PHM120 - Pharmacology I**

**PHM125 - Pharmacology II**

**PHM133 - Pharmacy Clinical**

**PHM135 - Pharmacy Clinical**

**PHM136 - Pharmacy Clinical**

**PHM140 - Trends in Pharmacy**

**PHM150 - Hospital Pharmacy**

**PHM155 - Community Pharmacy**

**PHM160 - Pharmaceutical Dosage Forms**

**PHM165 - Pharmacy Professional Practice**

**PHM265 - Professional Issues**

## Plumbing Department

### Programs

C35300 - Plumbing Certificate  
C35300CP - Plumbing Pathway  
D35300 - Plumbing Diploma

### Courses

BPR130 - Print Reading-Construction  
PLU110 - Modern Plumbing  
PLU120 - Plumbing Applications  
PLU124 - Plumbing Business Operations  
PLU130 - Plumbing Systems  
PLU140 - Introduction to Plumbing Codes  
PLU150 - Plumbing Diagrams  
PLU160 - Plumbing Estimates

## Practical Nursing Department

### Programs

D45660 - Practical Nursing Diploma

### Courses

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

## Radiography Department

### Programs

A45700 - Radiography

### Courses

|                                                  |                                            |
|--------------------------------------------------|--------------------------------------------|
| RAD110 - Radiography Introduction & Patient Care | RAD231 - Image Production III              |
| RAD111 - RAD Procedures I                        | RAD251 - RAD Clinical Ed IV                |
| RAD112 - RAD Procedures II                       | RAD261 - Radiographic Clinical Education V |
| RAD113 - Radiography Laboratory Elective         | RAD271 - Radiography Capstone              |
| RAD121 - Image Production I                      | RAD281 - RAD Clinical Elective             |
| RAD122 - Image Production II                     |                                            |
| RAD141 - Radiation Safety                        |                                            |
| RAD151 - RAD Clinical Ed I                       |                                            |
| RAD161 - RAD Clinical Ed II                      |                                            |
| RAD171 - RAD Clinical Ed III                     |                                            |
| RAD182 - RAD Clinical Elective                   |                                            |
| RAD211 - Radiographic Procedures III             |                                            |

# Simulation & Game Development Department

## Programs

A25450 - Simulation and Game Development

C25450 - Simulation and Game Development

Certificate

C25450B - Game Development 3D Modeling and

Animation Certificate

C25450C - Simulation and Game Development -

Game Environment Certificate

C25450CP - Simulation and Game Development

Pathway

## Courses

SGD111 - Introduction to Simulation and Game  
Development

SGD112 - SGD Design I

SGD113 - SGD Programming I

SGD114 - SGD 3D Modeling I

SGD116 - SGD Graphic Design Tools

SGD117 - Art for Games

SGD126 - Simulation and Game Engine Design

SGD134 - SGD Quality Assurance

SGD135 - Serious Games

SGD158 - SGD Business Management

SGD159 - SGD Production Management

SGD162 - SGD 3D Animation I

SGD163 - SGD Documentation

SGD164 - SGD Audio/Video

SGD167 - SGD Ethics

SGD168 - SGD Mobile Programming I

SGD174 - SGD Level Design I

SGD212 - Simulation and Game Development Design  
II

SGD213 - Simulation Game Development  
Programming II

SGD214 - SGD 3D Modeling II

SGD262 - Simulation and Game Development 3D  
Animation II

SGD268 - SGD Mobile Programming II

SGD274 - SGD Level Design II

SGD285 - SGD Software Engineering

SGD288 - Simulation and Game Development  
Portfolio Design

SGD289 - Simulation and Game Development Project

# Social & Human Services Tech Department

## Programs

A45380C - Social and Human Services - Mental Health

A45380E - Social and Human Services - Addiction & Recovery

A45380G - Social and Human Services - Generalist Track

C45380A - Social and Human Services - Child Advocacy Certificate

C45380C - Social and Human Services - Mental Health Certificate

C45380CP - Social and Human Services Pathway

C45380E - Social and Human Services - Addiction & Recovery Certificate

## Courses

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

GRO120 - Intro to Gerontology

HSE110 - Introduction to Human Services

HSE112 - Group Process I

HSE123 - Interviewing Techniques for Human Services

HSE125 - Counseling

HSE127 - Conflict Resolution

HSE135 - Orientation Lab I

HSE170 - Recovery Services

HSE210 - Diversity, Ethics, and Trends in Human Services

HSE212 - Group Dynamics

HSE220 - Case Management

HSE223 - Counseling Theories & Skills

HSE225 - Crisis and Intervention Principles

HSE227 - Children & Adolescents in Crisis

MHA140 - Introduction to Mental Health

MHA150 - Mental Health Interventions

MHA155 - Psychological Assessment

MHA238 - Psychopathology

MHA240 - Advocacy

PSY265 - Behavioral Modification

SAB110 - Intro to Addiction & Recovery Studies

SAB120 - Intake and Assessment

SAB135 - Addictive Process

SAB137 - Co-Dependency

SAB210 - Addiction & Recovery Counseling

SAB240 - Diversity, Ethics, & Trends in Addiction & Recovery

SWK110 - Intro to Social Work

SWK113 - Cultural Competency & Diversity

# Surgical Technology Department

## Programs

A45740 - Surgical Technology

## Courses

SUR110 - Introduction to Surgical Technology

SUR111 - Periop Patient Care

SUR122 - Surgical Procedures I

SUR123 - Sur Clinical Practice I

SUR134 - Surgical Procedures II

SUR135 - SUR Clinical Practice II

SUR137 - Professional Success Preparation

SUR210 - Advanced Sur Clinical Practice

SUR211 - Advanced Theoretical Concepts

# Sustainability Technology Department

## Courses

ALT120 - Renewable Energy Technologies

ALT250 - Thermal Systems

ELC230 - Wind and Hydro Power Systems

ENV110 - Environmental Science

SST110 - Introduction to Sustainability

SST120 - Energy Use Analysis

SST130 - Modeling Renewable Energy

SST210 - Issues in Sustainability

SST250 - Sustainability Capstone Project

# Veterinary Medical Technology Department

## Programs

A45780 - Veterinary Medical Technology

## Courses

VET110 - Animal Breeds and Husbandry

VET120 - Veterinary Anatomy & Physiology

VET121 - Veterinary Medical Terminology

VET122 - Veterinary Zoology

VET123 - Veterinary Parasitology

VET125 - Veterinary Diseases I

VET126 - Veterinary Diseases II

VET131 - Veterinary Lab Techniques I

VET133 - Veterinary Clinical Practice I

VET137 - Veterinary Office Practices

VET211 - Veterinary Lab Techniques II

VET212 - Veterinary Lab Techniques III

VET213 - Veterinary Clinical Practice II

VET214 - Veterinary Clinical Practice III

VET215 - Veterinary Pharmacology

VET217 - Large Animal Clinical Practice

VET237 - Animal Nutrition



# Welding Technology Department

## Programs

C50420 - Welding Technology - SMAW/GTAW

Certificate

C50420C - Welding Technology Certificate

C50420CP - Welding Technology Pathway

C50420F - Welding Technology - GTAW/GMAW

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

WLD131 - GTAW (TIG) Plate

WLD132 - GTAW (TIG) Plate/Pipe

WLD141 - Symbols and Specifications

WLD215 - SMAW (stick) Pipe

WLD231 - GTAW (TIG) Pipe

# All Programs

# A10100 - Associate in Arts

## Overview

### Department Title      Program Code

Associate in Arts      A10100

### Program 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.

### Degree

Associate in Arts

## Program of Study

### Program Requirements

#### Universal General Education Transfer Component (Credits: 32-33)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

**UGETC Humanities/Fine Arts** (Take 9 credits, *Minimum 2 subjects*)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**UGETC Social/Behavioral Sciences** (Take 9 credits, *Minimum 2 subjects*)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**UGETC Mathematics** (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 175 - Precalculus **Credits: 5**

**UGETC Natural Sciences (Take 4 credits) *Reminder:***

*AST 111 and PHY 110 have mandatory labs*

- AST 111 - Descriptive Astronomy **Credits: 3 and**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- GEL 111 - Geology **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

**Additional General Education Courses**

**General Education Courses (Take 14 credits)**

- ANT 210 - General Anthropology **Credits: 3**
- ANT 220 - Cultural Anthropology **Credits: 3**
- ANT 221 - Comparative Cultures **Credits: 3**
- ANT 230 - Physical Anthropology **Credits: 3 and**
- ANT 230A - Physical Anthropology Lab **Credits: 1**
- ANT 240 - Archaeology **Credits: 3**
- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- ASL 111 - Elementary ASL I **Credits: 3**
- ASL 112 - Elementary ASL II **Credits: 3**
- ASL 211 - Intermediate ASL I **Credits: 3**
- ASL 212 - Intermediate ASL II **Credits: 3**

- AST 111 - Descriptive Astronomy **Credits: 3 and**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- AST 152 - General Astronomy II **Credits: 3 and**
- AST 152A - General Astronomy II Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**
- BIO 120 - Introductory Botany **Credits: 4**
- BIO 130 - Introductory Zoology **Credits: 4**
- BIO 140 - Environmental Biology **Credits: 3 and**
- BIO 140A - Environmental Biology Lab **Credits: 1**
- CHM 131 - Introduction to Chemistry **Credits: 3 and**
- CHM 131A - Intro to Chemistry Lab **Credits: 1**
- CHM 132 - Organic and Biochemistry **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**
- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- DRA 112 - Literature of the Theatre **Credits: 3**
- DRA 115 - Theatre Criticism **Credits: 3**

- DRA 122 - Oral Interpretation **Credits: 3**
- DRA 126 - Storytelling **Credits: 3**
- DRA 211 - Theatre History I **Credits: 3**
- DRA 212 - Theatre History II **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- ENG 113 - Literature-Based Research **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- ENG 131 - Introduction to Literature **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 233 - Major American Writers **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 243 - Major British Writers **Credits: 3**
- ENG 251 - Western World Literature I **Credits: 3**
- ENG 252 - Western World Literature II **Credits: 3**
- ENG 261 - World Literature I **Credits: 3**
- ENG 262 - World Literature II **Credits: 3**
- FRE 111 - Elementary French I **Credits: 3**
- FRE 112 - Elementary French II **Credits: 3**
- FRE 211 - Intermediate French I **Credits: 3**
- FRE 212 - Intermediate French II **Credits: 3**
- GEL 111 - Geology **Credits: 4**
- GEL 113 - Historical Geology **Credits: 4**
- GEL 120 - Physical Geology **Credits: 4**
- GEL 230 - Environmental Geology **Credits: 4**
- GER 111 - Elementary German I **Credits: 3**
- GER 112 - Elementary German II **Credits: 3**
- GER 211 - Intermediate German I **Credits: 3**
- GER 212 - Intermediate German II **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 115 - Intro to Global History **Credits: 3**
- HIS 121 - Western Civilization I **Credits: 3**
- HIS 122 - Western Civilization II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- HUM 110 - Technology and Society **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- HUM 120 - Cultural Studies **Credits: 3**
- HUM 121 - The Nature of America **Credits: 3**
- HUM 122 - Southern Culture **Credits: 3**
- MAT 141 - Mathematical Concepts I **Credits: 3**
- MAT 142 - Mathematical Concepts II **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 263 - Brief Calculus **Credits: 4**
- MAT 271 - Calculus I **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**
- MAT 273 - Calculus III **Credits: 4**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- MUS 114 - Introduction to World Music **Credits: 3**
- MUS 210 - History of Rock Music **Credits: 3**
- MUS 211 - History of Country Music **Credits: 3**

- MUS 212 - American Musical Theatre **Credits: 3**
- MUS 213 - Opera and Musical Theatre **Credits: 3**
- PHI 210 - History of Philosophy **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 220 - Western Philosophy I **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**
- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**
- POL 110 - Intro Political Science **Credits: 3**
- POL 120 - American Government **Credits: 3**
- POL 210 - Comparative Government **Credits: 3**
- POL 220 - International Relations **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- PSY 237 - Social Psychology **Credits: 3**
- PSY 239 - Psychology of Personality **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**
- REL 110 - World Religions **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**
- REL 211 - Intro to Old Testament **Credits: 3**
- REL 212 - Intro to New Testament **Credits: 3**
- REL 221 - Religion in America **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 213 - Sociology of the Family **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**

- SOC 225 - Social Diversity **Credits: 3**
- SOC 230 - Race and Ethnic Relations **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**
- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 211 - Intermediate Spanish I **Credits: 3**
- SPA 212 - Intermediate Spanish II **Credits: 3**

## **Other Required Hours (Credits: 16)**

**Required course: Academic Transition** (Take 1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

**Electives** (Take 15 credits) *Reminder: AST 111, BIO 140 and PHY 110 have mandatory labs*

### **Accounting:**

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- ACC 121 - Prin of Managerial Accounting **Credits: 4**

### **Anthropology:**

- ANT 210 - General Anthropology **Credits: 3**
- ANT 220 - Cultural Anthropology **Credits: 3**
- ANT 221 - Comparative Cultures **Credits: 3**
- ANT 230 - Physical Anthropology **Credits: 3 and**
- ANT 230A - Physical Anthropology Lab **Credits: 1**
- ANT 240 - Archaeology **Credits: 3 and**
- ANT 240A - Archaeology Field Lab **Credits: 2**
- ANT 245 - World Prehistory **Credits: 3**

### **Art:**

- ART 111 - Art Appreciation **Credits: 3**
- ART 113 - Art Methods and Materials **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**

- ART 115 - Art History Survey II **Credits: 3**
- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- ART 118 - Art by Women **Credits: 3**
- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 122 - Three-Dimensional Design **Credits: 3**
- ART 130 - Basic Drawing **Credits: 2**
- ART 131 - Drawing I **Credits: 3**
- ART 132 - Drawing II **Credits: 3**
- ART 135 - Figure Drawing I **Credits: 3**
- ART 140 - Basic Painting **Credits: 2**
- ART 170 - The Business of Art **Credits: 3**
- ART 171 - Digital Design I **Credits: 3**
- ART 212 - Gallery Assistantship I **Credits: 3**
- ART 213 - Gallery Assistantship II **Credits: 3**
- ART 214 - Portfolio and Resume **Credits: 1**
- ART 215 - Visual Art Portfolio **Credits: 3**
- ART 222 - Wood Design I **Credits: 3**
- ART 231 - Printmaking I **Credits: 3**
- ART 232 - Printmaking II **Credits: 3**
- ART 235 - Figure Drawing II **Credits: 3**
- ART 240 - Painting I **Credits: 3**
- ART 241 - Painting II **Credits: 3**
- ART 242 - Landscape Painting **Credits: 3**
- ART 243 - Portrait Painting **Credits: 3**
- ART 244 - Watercolor **Credits: 3**
- ART 245 - Metals I **Credits: 3**
- ART 246 - Metals II **Credits: 3**
- ART 247 - Jewelry I **Credits: 3**
- ART 248 - Jewelry II **Credits: 3**
- ART 250 - Surface Design: Textiles **Credits: 3**
- ART 251 - Weaving I **Credits: 3**

- ART 252 - Weaving II **Credits: 3**
- ART 260 - Photography Appreciation **Credits: 3**
- ART 261 - Photography I **Credits: 3**
- ART 262 - Photography II **Credits: 3**
- ART 264 - Digital Photography I **Credits: 3**
- ART 265 - Digital Photography II **Credits: 3**
- ART 266 - Videography I **Credits: 3**
- ART 267 - Videography II **Credits: 3**
- ART 271 - Digital Design II **Credits: 3**
- ART 275 - Introduction to Graphic Design **Credits: 3**
- ART 276 - Interactive Media Design **Credits: 3**
- ART 281 - Sculpture I **Credits: 3**
- ART 282 - Sculpture II **Credits: 3**
- ART 283 - Ceramics I **Credits: 3**
- ART 284 - Ceramics II **Credits: 3**
- ART 285 - Ceramics III **Credits: 3**
- ART 286 - Ceramics IV **Credits: 3**
- ART 288 - Studio **Credits: 3**

#### **American Sign Language:**

- ASL 111 - Elementary ASL I **Credits: 3**
- ASL 112 - Elementary ASL II **Credits: 3**
- ASL 181 - ASL Lab 1 **Credits: 1**
- ASL 182 - ASL Lab 2 **Credits: 1**
- ASL 211 - Intermediate ASL I **Credits: 3**
- ASL 212 - Intermediate ASL II **Credits: 3**
- ASL 281 - ASL Lab 3 **Credits: 1**
- ASL 282 - ASL Lab 4 **Credits: 1**

#### **Astronomy:**

- AST 111 - Descriptive Astronomy **Credits: 3**  
*and*



- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- AST 152 - General Astronomy II **Credits: 3 and**
- AST 152A - General Astronomy II Lab **Credits: 1**
- AST 251 - Observational Astronomy **Credits: 2**

**Biology:**

- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**
- BIO 120 - Introductory Botany **Credits: 4**
- BIO 130 - Introductory Zoology **Credits: 4**
- BIO 140 - Environmental Biology **Credits: 3 and**
- BIO 140A - Environmental Biology Lab **Credits: 1**
- BIO 143 - Field Biology Mini Course **Credits: 2**
- BIO 145 - Ecology **Credits: 4**
- BIO 146 - Regional Natural History **Credits: 4**
- BIO 150 - Genetics in Human Affairs **Credits: 3**
- BIO 155 - Nutrition **Credits: 3**
- BIO 163 - Basic Anat & Physiology **Credits: 5**
- BIO 165 - Anatomy and Physiology I **Credits: 4**
- BIO 166 - Anatomy and Physiology II **Credits: 4**
- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**
- BIO 175 - General Microbiology **Credits: 3**
- BIO 180 - Biological Chemistry **Credits: 3**

- BIO 224 - Local Flora Spring **Credits: 2**
- BIO 230 - Entomology **Credits: 4**
- BIO 242 - Nat Resource Conservation **Credits: 3**
- BIO 243 - Marine Biology **Credits: 4**
- BIO 250 - Genetics **Credits: 4**
- BIO 265 - Cell Biology **Credits: 4**
- BIO 271 - Pathophysiology **Credits: 3**
- BIO 275 - Microbiology **Credits: 4**
- BIO 280 - Biotechnology **Credits: 3**

**Business:**

- BUS 110 - Introduction to Business **Credits: 3**
- BUS 115 - Business Law I **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- BUS 228 - Business Statistics **Credits: 3**

**Chemistry:**

- CHM 115 - Concepts in Chemistry **Credits: 3 and**
- CHM 115A - Concepts in Chemistry Lab **Credits: 1**
- CHM 130 - Gen, Org, & Biochemistry **Credits: 3 and**
- CHM 130A - Gen, Org, & Biochem Lab **Credits: 1**
- CHM 131 - Introduction to Chemistry **Credits: 3 and**
- CHM 131A - Intro to Chemistry Lab **Credits: 1**
- CHM 132 - Organic and Biochemistry **Credits: 4**
- CHM 135 - Survey of Chemistry I **Credits: 4**
- CHM 136 - Survey of Chemistry II **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**
- CHM 251 - Organic Chemistry I **Credits: 4**



- CHM 252 - Organic Chemistry II **Credits: 4**
- CHM 263 - Analytical Chemistry **Credits: 5**
- CHM 271 - Biochemical Principles **Credits: 3**

**Information Systems:**

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**

**Criminal Justice:**

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 121 - Law Enforcement Operations **Credits: 3**
- CJC 141 - Corrections **Credits: 3**
- CJC 212 - Ethics & Comm Relations **Credits: 3**

**Communication:**

- COM 110 - Introduction to Communication **Credits: 3**
- COM 111 - Voice and Diction I **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 130 - Nonverbal Communication **Credits: 3**
- COM 140 - Intro Intercultural Com **Credits: 3**
- COM 150 - Intro. to Mass Comm. **Credits: 3**
- COM 160 - Small Group Communication **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- COM 251 - Debate I **Credits: 3**

**Computer Science:**

- CSC 120 - Computing Fundamentals I **Credits: 4**
- CSC 130 - Computing Fundamentals II **Credits: 4**
- CSC 134 - C++ Programming **Credits: 3**
- CSC 139 - Visual BASIC Programming **Credits: 3**

- CSC 151 - JAVA Programming **Credits: 3**
- CSC 239 - Advanced Visual BASIC Prog **Credits: 3**
- CSC 249 - Data Structure & Algorithms **Credits: 3**
- CSC 251 - Advanced JAVA Programming **Credits: 3**

**Computer Info Tech:**

- CTS 115 - Info Sys Business Concepts **Credits: 3**

**Drafting:**

- DFT 170 - Engineering Graphics **Credits: 3**

**Drama/Theatre:**

- DRA 111 - Theatre Appreciation **Credits: 3**
- DRA 112 - Literature of the Theatre **Credits: 3**
- DRA 115 - Theatre Criticism **Credits: 3**
- DRA 118 - Script Analysis **Credits: 3**
- DRA 120 - Voice for Performance **Credits: 3**
- DRA 122 - Oral Interpretation **Credits: 3**
- DRA 124 - Readers Theatre **Credits: 3**
- DRA 126 - Storytelling **Credits: 3**
- DRA 128 - Children's Theatre **Credits: 3**
- DRA 130 - Acting I **Credits: 3**
- DRA 131 - Acting II **Credits: 3**
- DRA 132 - Stage Movement **Credits: 3**
- DRA 135 - Acting for the Camera I **Credits: 3**
- DRA 136 - Acting for the Camera II **Credits: 3**
- DRA 140 - Stagecraft I **Credits: 3**
- DRA 141 - Stagecraft II **Credits: 3**
- DRA 142 - Costuming **Credits: 3**
- DRA 144 - Introduction to Stage Design **Credits: 3**
- DRA 145 - Stage Make-Up **Credits: 2**
- DRA 170 - Play Production I **Credits: 3**

- DRA 171 - Play Production II **Credits: 3**
- DRA 175 - Teleplay Production I **Credits: 3**
- DRA 211 - Theatre History I **Credits: 3**
- DRA 212 - Theatre History II **Credits: 3**
- DRA 230 - Acting III **Credits: 3**
- DRA 231 - Acting IV **Credits: 3**
- DRA 240 - Lighting for the Theatre **Credits: 3**
- DRA 260 - Directing **Credits: 3**
- DRA 270 - Play Production III **Credits: 3**
- DRA 271 - Play Production IV **Credits: 3**

**Economics:**

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**

**Education:**

- EDU 144 - Child Development I **Credits: 3**
- EDU 145 - Child Development II **Credits: 3**
- EDU 216 - Foundations of Education **Credits: 3**
- EDU 221 - Children With Exceptionalities **Credits: 3**

**Engineering:**

- EGR 120 - Eng and Design Graphics **Credits: 3**
- EGR 150 - Intro to Engineering **Credits: 2**
- EGR 210 - Intro to Elec/Comp Eng Lab **Credits: 2**
- EGR 212 - Logic System Design I **Credits: 3**
- EGR 214 - Num Methods for Engineers **Credits: 3**
- EGR 215 - Network Theory I **Credits: 3**
- EGR 216 - Logic and Network Lab **Credits: 1**
- EGR 220 - Engineering Statics **Credits: 3**
- EGR 225 - Engineering Dynamics **Credits: 3**

- EGR 228 - Intro to Solid Mechanics **Credits: 3**

**English:**

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 113 - Literature-Based Research **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- ENG 125 - Creative Writing I **Credits: 3**
- ENG 126 - Creative Writing II **Credits: 3**
- ENG 127 - Fiction Writing **Credits: 3**
- ENG 128 - Poetry Writing **Credits: 3**
- ENG 129 - Creative Nonfiction Writing **Credits: 3**
- ENG 131 - Introduction to Literature **Credits: 3**
- ENG 132 - Introduction to Drama **Credits: 3**
- ENG 134 - Introduction to Poetry **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 233 - Major American Writers **Credits: 3**
- ENG 235 - Survey of Film As Lit **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 243 - Major British Writers **Credits: 3**
- ENG 251 - Western World Literature I **Credits: 3**
- ENG 252 - Western World Literature II **Credits: 3**
- ENG 253 - The Bible As Literature **Credits: 3**
- ENG 261 - World Literature I **Credits: 3**
- ENG 262 - World Literature II **Credits: 3**
- ENG 271 - Contemporary Literature **Credits: 3**
- ENG 272 - Southern Literature **Credits: 3**

- ENG 273 - African-American Literature **Credits: 3**
- ENG 274 - Literature by Women **Credits: 3**
- ENG 275 - Science Fiction **Credits: 3**

**French:**

- FRE 111 - Elementary French I **Credits: 3**
- FRE 112 - Elementary French II **Credits: 3**
- FRE 141 - Culture and Civilization **Credits: 3**
- FRE 151 - Francophone Literature **Credits: 3**
- FRE 161 - Cultural Immersion **Credits: 3**
- FRE 211 - Intermediate French I **Credits: 3**
- FRE 212 - Intermediate French II **Credits: 3**
- FRE 221 - French Conversation **Credits: 3**
- FRE 231 - Reading and Composition **Credits: 3**

**Geology:**

- GEL 111 - Geology **Credits: 4**
- GEL 113 - Historical Geology **Credits: 4**
- GEL 120 - Physical Geology **Credits: 4**
- GEL 230 - Environmental Geology **Credits: 4**

**German:**

- GER 111 - Elementary German I **Credits: 3**
- GER 112 - Elementary German II **Credits: 3**
- GER 141 - Culture and Civilization **Credits: 3**
- GER 161 - Cultural Immersion **Credits: 3**
- GER 211 - Intermediate German I **Credits: 3**
- GER 212 - Intermediate German II **Credits: 3**
- GER 221 - German Conversation **Credits: 3**
- GER 231 - Reading and Composition **Credits: 3**

**Geographic Information System**

- GIS 111 - Introduction to GIS **Credits: 3**

**Health:**

- HEA 110 - Personal Health/Wellness **Credits: 3**
- HEA 112 - First Aid & CPR **Credits: 2**
- HEA 120 - Community Health **Credits: 3**

**History:**

- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 115 - Intro to Global History **Credits: 3**
- HIS 116 - Current World Problems **Credits: 3**
- HIS 121 - Western Civilization I **Credits: 3**
- HIS 122 - Western Civilization II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- HIS 141 - Genealogy & Local History **Credits: 3**
- HIS 145 - The Second World War **Credits: 3**
- HIS 151 - Hispanic Civilization **Credits: 3**
- HIS 162 - Women and History **Credits: 3**
- HIS 163 - The World Since 1945 **Credits: 3**
- HIS 165 - Twentieth-Century World **Credits: 3**
- HIS 167 - The Vietnam War **Credits: 3**
- HIS 211 - Ancient History **Credits: 3**
- HIS 212 - Medieval History **Credits: 3**
- HIS 216 - Twentieth-Century Europe **Credits: 3**
- HIS 221 - African-American History **Credits: 3**
- HIS 222 - African-American Hist I **Credits: 3**
- HIS 223 - African-American Hist II **Credits: 3**
- HIS 226 - The Civil War **Credits: 3**
- HIS 227 - Native American History **Credits: 3**

**Humanities:**

- HUM 110 - Technology and Society **Credits: 3**

- HUM 115 - Critical Thinking **Credits: 3**
- HUM 120 - Cultural Studies **Credits: 3**
- HUM 121 - The Nature of America **Credits: 3**
- HUM 122 - Southern Culture **Credits: 3**
- HUM 123 - Appalachian Culture **Credits: 3**
- HUM 130 - Myth in Human Culture **Credits: 3**
- HUM 140 - History of Architecture **Credits: 3**
- HUM 150 - American Women's Studies **Credits: 3**
- HUM 160 - Introduction to Film **Credits: 3**
- HUM 161 - Advanced Film Studies **Credits: 3**
- HUM 170 - The Holocaust **Credits: 3**
- HUM 180 - Internat Cultural Explor **Credits: 3**
- HUM 211 - Humanities I **Credits: 3**
- HUM 212 - Humanities II **Credits: 3**
- HUM 220 - Human Values and Meaning **Credits: 3**
- HUM 230 - Leadership Development **Credits: 3**

#### Human Services:

- HSE 110 - Intro to Human Services **Credits: 3**

#### Mathematics:

- MAT 141 - Mathematical Concepts I **Credits: 3**
- MAT 142 - Mathematical Concepts II **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 167 - Discrete Mathematics **Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 252 - Statistical Methods II **Credits: 4**
- MAT 263 - Brief Calculus **Credits: 4**
- MAT 271 - Calculus I **Credits: 4**

- MAT 272 - Calculus II **Credits: 4**
- MAT 273 - Calculus III **Credits: 4**
- MAT 280 - Linear Algebra **Credits: 3**
- MAT 285 - Differential Equations **Credits: 3**

#### Music:

- MUS 111 - Fundamentals of Music **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- MUS 114 - Introduction to World Music **Credits: 3**
- MUS 121 - Music Theory I **Credits: 3**
- MUS 122 - Music Theory II **Credits: 3**
- MUS 123 - Music Composition **Credits: 1**
- MUS 125 - Aural Skills I **Credits: 1**
- MUS 126 - Aural Skills II **Credits: 1**
- MUS 131 - Chorus I **Credits: 1**
- MUS 132 - Chorus II **Credits: 1**
- MUS 133 - Band I **Credits: 1**
- MUS 134 - Band II **Credits: 1**
- MUS 135 - Jazz Ensemble I **Credits: 1**
- MUS 136 - Jazz Ensemble II **Credits: 1**
- MUS 137 - Orchestra I **Credits: 1**
- MUS 138 - Orchestra II **Credits: 1**
- MUS 141 - Ensemble I **Credits: 1**
- MUS 142 - Ensemble II **Credits: 1**
- MUS 151 - Class Music I **Credits: 1**
- MUS 152 - Class Music II **Credits: 1**
- MUS 161 - Applied Music I **Credits: 2**
- MUS 162 - Applied Music II **Credits: 2**
- MUS 170 - Business of Music **Credits: 3**
- MUS 173 - Opera Production I **Credits: 3**
- MUS 174 - Opera Production II **Credits: 3**
- MUS 181 - Show Choir I **Credits: 4**

- MUS 182 - Show Choir II **Credits: 4**
- MUS 210 - History of Rock Music **Credits: 3**
- MUS 211 - History of Country Music **Credits: 3**
- MUS 212 - American Musical Theatre **Credits: 3**
- MUS 213 - Opera and Musical Theatre **Credits: 3**
- MUS 214 - Electronic Music I **Credits: 2**
- MUS 215 - Electronic Music II **Credits: 2**
- MUS 217 - Elementary Conducting **Credits: 2**
- MUS 221 - Music Theory III **Credits: 3**
- MUS 222 - Music Theory IV **Credits: 3**
- MUS 225 - Aural Skills III **Credits: 1**
- MUS 226 - Aural Skills IV **Credits: 1**
- MUS 231 - Chorus III **Credits: 1**
- MUS 232 - Chorus IV **Credits: 1**
- MUS 233 - Band III **Credits: 1**
- MUS 234 - Band IV **Credits: 1**
- MUS 235 - Jazz Ensemble III **Credits: 1**
- MUS 236 - Jazz Ensemble IV **Credits: 1**
- MUS 237 - Orchestra III **Credits: 1**
- MUS 238 - Orchestra IV **Credits: 1**
- MUS 241 - Ensemble III **Credits: 1**
- MUS 242 - Ensemble IV **Credits: 1**
- MUS 251 - Class Music III **Credits: 1**
- MUS 252 - Class Music IV **Credits: 1**
- MUS 253 - Big Band **Credits: 1**
- MUS 260 - Intro to Music Education **Credits: 2**
- MUS 261 - Applied Music III **Credits: 2**
- MUS 262 - Applied Music IV **Credits: 2**
- MUS 265 - Piano Pedagogy **Credits: 1**
- MUS 271 - Music History I **Credits: 3**
- MUS 272 - Music History II **Credits: 3**

- MUS 273 - Opera Production III **Credits: 3**
- MUS 274 - Opera Production IV **Credits: 3**
- MUS 280 - Music for the EI Classroom **Credits: 3**
- MUS 281 - Show Choir III **Credits: 4**
- MUS 282 - Show Choir IV **Credits: 4**
- MUS 283 - Varied Cultures/Musical Perf **Credits: 2**

#### **Physical Education:**

- PED 110 - Fit and Well for Life **Credits: 2**
- PED 117 - Weight Training I **Credits: 1**
- PED 118 - Weight Training II **Credits: 1**
- PED 165 - Sport Science As a Career **Credits: 3**
- PED 172 - Outdoor Living **Credits: 2**
- PED 252 - Officiating/Bsball/Sfball **Credits: 2**
- PED 254 - Coaching Basketball **Credits: 2**
- PED 256 - Coaching Baseball **Credits: 2**
- PED 259 - Prev & Care Ath Injuries **Credits: 2**

#### **Philosophy:**

- PHI 210 - History of Philosophy **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 220 - Western Philosophy I **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### **Physics:**

- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**
- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**

**Political Science:**

- POL 110 - Intro Political Science **Credits: 3**
- POL 120 - American Government **Credits: 3**
- POL 130 - State & Local Government **Credits: 3**
- POL 210 - Comparative Government **Credits: 3**
- POL 220 - International Relations **Credits: 3**
- POL 250 - Intro to Political Theory **Credits: 3**

**Psychology:**

- PSY 150 - General Psychology **Credits: 3**
- PSY 211 - Psychology of Adjustment **Credits: 3**
- PSY 215 - Positive Psychology **Credits: 3**
- PSY 231 - Forensic Psychology **Credits: 3**
- PSY 237 - Social Psychology **Credits: 3**
- PSY 239 - Psychology of Personality **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**
- PSY 243 - Child Psychology **Credits: 3**
- PSY 246 - Adolescent Psychology **Credits: 3**
- PSY 249 - Psychology of Aging **Credits: 3**
- PSY 259 - Human Sexuality **Credits: 3**
- PSY 263 - Educational Psychology **Credits: 3**
- PSY 271 - Sports Psychology **Credits: 3**
- PSY 275 - Health Psychology **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**

**Religion:**

- REL 110 - World Religions **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**
- REL 211 - Intro to Old Testament **Credits: 3**
- REL 212 - Intro to New Testament **Credits: 3**
- REL 221 - Religion in America **Credits: 3**

**Sociology:**

- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 213 - Sociology of the Family **Credits: 3**
- SOC 215 - Group Processes **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**
- SOC 225 - Social Diversity **Credits: 3**
- SOC 230 - Race and Ethnic Relations **Credits: 3**
- SOC 232 - Social Context of Aging **Credits: 3**
- SOC 234 - Sociology of Gender **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**
- SOC 242 - Sociology of Deviance **Credits: 3**
- SOC 244 - Soc of Death & Dying **Credits: 3**
- SOC 245 - Drugs and Society **Credits: 3**
- SOC 250 - Sociology of Religion **Credits: 3**
- SOC 254 - Rural and Urban Sociology **Credits: 3**

**Spanish:**

- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 141 - Culture and Civilization **Credits: 3**
- SPA 161 - Cultural Immersion **Credits: 3**
- SPA 211 - Intermediate Spanish I **Credits: 3**
- SPA 212 - Intermediate Spanish II **Credits: 3**
- SPA 221 - Spanish Conversation **Credits: 3**
- SPA 231 - Reading and Composition **Credits: 3**

**Total Hours: 61**



# A10100BA - Associate in Arts - Business Administration Track

## Overview

### Department Title      Program Code

Associate in Arts      A10100BA

### Program 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.

### Degree

Associate in Arts

## Program of Study

### Program Requirements

#### General Education Requirements (46 credits)

English (Take 6 credits)

- ENG-111 Writing and Inquiry **Credits: 3**

- ENG-112 Writing/Research in the Disc **Credits: 3**

**Humanities/Fine Arts/Communication Elective** (Take 9 credits, *Minimum 2 subjects*)

- COM-120 Intro Interpersonal Com **Credits: 3**
- COM-231 Public Speaking **Credits: 3**
- ART-111 Art Appreciation **Credits: 3**
- ART-114 Art History Survey I **Credits: 3**
- ART-115 Art History Survey II **Credits: 3**
- DRA-111 Theatre Appreciation **Credits: 3**
- ENG-231 American Literature I **Credits: 3**
- ENG-232 American Literature II **Credits: 3**
- ENG-241 British Literature I **Credits: 3**
- ENG-242 British Literature II **Credits: 3**
- MUS-110 Music Appreciation **Credits: 3**
- MUS-112 Introduction to Jazz **Credits: 3**
- PHI-215 Philosophical Issues **Credits: 3**
- PHI-240 Introduction to Ethics **Credits: 3**

**Social/Behavioral Sciences Elective** (Take 9 credits, *Minimum 2 subjects*)

- HIS-111 World Civilizations I **Credits: 3**
- HIS-112 World Civilizations II **Credits: 3**
- HIS-131 American History I **Credits: 3**
- HIS-132 American History II **Credits: 3**
- POL-120 American Government **Credits: 3**
- PSY-150 General Psychology **Credits: 3**
- SOC-210 Introduction to Sociology **Credits: 3**

**Math** (Take 4 credits)

- MAT-152 Statistical Methods I **Credits: 4**
- MAT-171 Precalculus Algebra **Credits: 4**

**Natural Sciences** (Take 1 of 7 Groups; 4 credits)

**Group I** (Take 4 credits)

- AST-111 Descriptive Astronomy **Credits: 3**

- AST-111A Descriptive Astronomy Lab  
**Credits: 1**

**Group II** (Take 4 credits)

- AST-151 General Astronomy I **Credits: 3**
- AST-151A General Astronomy I Lab **Credits: 1**

**Group III** (Take 4 credits)

- BIO-110 Principles of Biology

**Group IV** (Take 4 credits)

- BIO-111 General Biology I

**Group V** (Take 4 credits)

- CHM-151 General Chemistry I

**Group VI** (Take 4 credits)

- GEL-111 Geology

**Group VII** (Take 4 credits)

- PHY-110 Conceptual Physics **Credits: 3**
- PHY-110A Conceptual Physics Lab **Credits: 1**

**Additional General Education** (14 credits)

**Group I** (Take 2 courses, 8 credits)

- MAT-152 Statistical Methods **Credits: 4**
- MAT-171 Precalculus Algebra **Credits: 4**
- MAT-263 Brief Calculus **Credits: 4**

**Group II** (Take 6 credits)

- ECO-251 Prin of Microeconomics **Credits: 3**
- ECO-252 Prin of Macroeconomics **Credits: 3**

**Other Required Hours** (15 credits)

- ACA-122 College Transfer Success **Credits: 1**
- ACC-120 Prin of Financial Accounting  
**Credits: 4**
- ACC-121 Prin of Managerial Accounting  
**Credits: 4**
- BUS-228 Business Statistics **Credits: 3**

**Electives** (Take 3 credits)

- FRE-111 Elementary French I **Credits: 3**
- GER-111 Elementary German I **Credits: 3**
- SPA-111 Elementary Spanish I **Credits: 3**

**Total Credits: 61**



# A1010T - Associate of Arts in Teacher Preparation

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Education        | A1010T       |

### Program 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.

### Degree

Associate in Arts

## Program of Study

### Program Requirements

#### UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (Credits: 45)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

- ENG 112 - Writing/Research in the Disc **Credits: 3**

#### Communications Electives (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

#### Humanities/Fine Arts Electives (Take 6 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Social/Behavioral Sciences Electives (Take 6 credits, Minimum 2 subjects)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Math Electives (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Natural Sciences Electives (Take 4 credits)**

- AST 111 - Descriptive Astronomy **Credits: 3 and**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- CHM 115 - Concepts in Chemistry **Credits: 3**
- GEL 111 - Geology **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

**Other Required General Education Hours (Take 14-15 credits)**

- ANT 210 - General Anthropology **Credits: 3**
- ANT 220 - Cultural Anthropology **Credits: 3**
- ANT 221 - Comparative Cultures **Credits: 3**
- ANT 230 - Physical Anthropology **Credits: 3 and**
- ANT 230A - Physical Anthropology Lab **Credits: 1**
- ANT 240 - Archaeology **Credits: 3**
- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- ASL 111 - Elementary ASL I **Credits: 3**
- ASL 112 - Elementary ASL II **Credits: 3**
- ASL 211 - Intermediate ASL I **Credits: 3**
- ASL 212 - Intermediate ASL II **Credits: 3**
- AST 111 - Descriptive Astronomy **Credits: 3 and**

- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy Lab **Credits: 1**
- AST 152 - General Astronomy II **Credits: 3 and**
- AST 152A - General Astronomy II Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**
- BIO 120 - Introductory Botany **Credits: 4**
- BIO 130 - Introductory Zoology **Credits: 4**
- BIO 140 - Environmental Biology **Credits: 3 and**
- BIO 140A - Environmental Biology Lab **Credits: 1**
- CHM 131 - Introduction to Chemistry **Credits: 3 and**
- CHM 131A - Intro to Chemistry Lab **Credits: 1**
- CHM 132 - Organic and Biochemistry **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**
- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 140 - Intro Intercultural Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- DRA 112 - Literature of the Theatre **Credits: 3**
- DRA 115 - Theatre Criticism **Credits: 3**
- DRA 122 - Oral Interpretation **Credits: 3**

- DRA 126 - Storytelling **Credits: 3**
- DRA 211 - Theatre History I **Credits: 3**
- DRA 212 - Theatre History II **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- ENG 113 - Literature-Based Research **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- ENG 131 - Introduction to Literature **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 233 - Major American Writers **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 243 - Major British Writers **Credits: 3**
- ENG 251 - Western World Literature I **Credits: 3**
- ENG 252 - Western World Literature II **Credits: 3**
- ENG 261 - World Literature I **Credits: 3**
- ENG 262 - World Literature II **Credits: 3**
- FRE 111 - Elementary French I **Credits: 3**
- FRE 112 - Elementary French II **Credits: 3**
- FRE 211 - Intermediate French I **Credits: 3**
- FRE 212 - Intermediate French II **Credits: 3**
- GEL 111 - Geology **Credits: 4**
- GEL 113 - Historical Geology **Credits: 4**
- GEL 120 - Physical Geology **Credits: 4**
- GEL 230 - Environmental Geology **Credits: 4**
- GER 111 - Elementary German I **Credits: 3**
- GER 112 - Elementary German II **Credits: 3**
- GER 211 - Intermediate German I **Credits: 3**
- GER 212 - Intermediate German II **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 115 - Intro to Global History **Credits: 3**
- HIS 121 - Western Civilization I **Credits: 3**
- HIS 122 - Western Civilization II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- HUM 110 - Technology and Society **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- HUM 120 - Cultural Studies **Credits: 3**
- HUM 121 - The Nature of America **Credits: 3**
- HUM 122 - Southern Culture **Credits: 3**
- MAT 141 - Mathematical Concepts I **Credits: 3**
- MAT 142 - Mathematical Concepts II **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 263 - Brief Calculus **Credits: 4**
- MAT 271 - Calculus I **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**
- MAT 273 - Calculus III **Credits: 4**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- MUS 114 - Introduction to World Music **Credits: 3**
- MUS 210 - History of Rock Music **Credits: 3**
- MUS 211 - History of Country Music **Credits: 3**

- MUS 212 - American Musical Theatre **Credits: 3**
- MUS 213 - Opera and Musical Theatre **Credits: 3**
- PHI 210 - History of Philosophy **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 220 - Western Philosophy I **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**
- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**
- POL 110 - Intro Political Science **Credits: 3**
- POL 120 - American Government **Credits: 3**
- POL 210 - Comparative Government **Credits: 3**
- POL 220 - International Relations **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- PSY 237 - Social Psychology **Credits: 3**
- PSY 239 - Psychology of Personality **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**
- REL 110 - World Religions **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**
- REL 211 - Intro to Old Testament **Credits: 3**
- REL 212 - Intro to New Testament **Credits: 3**
- REL 221 - Religion in America **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 213 - Sociology of the Family **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**

- SOC 230 - Race and Ethnic Relations **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**
- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 211 - Intermediate Spanish I **Credits: 3**
- SPA 212 - Intermediate Spanish II **Credits: 3**

## **ADDITIONAL REQUIRED HOURS (Credits: 17-18)**

### **Academic Transition (Take 1 credit)**

- ACA 122 - College Transfer Success **Credits: 1**

### **General Education (Take 3 credits)**

- SOC 225 - Social Diversity **Credits: 3**

### **Education (Take 14 credits)**

- EDU 187 - Teaching and Learning for All **Credits: 4**
- EDU 216 - Foundations of Education **Credits: 3**
- EDU 250 - Teacher Licensure Preparation **Credits: 3**
- EDU 279 - Literacy Develop and Instruct **Credits: 4**

## **Total Semester Hours Credits: 60-61**

**Optional General Education Hours:** A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

# A10300 - Associate in General Education

## Overview

### Department Title      Program Code

Associate in General  
Education      A10300

### Program Description

The Associate in General Education curriculum is designed for the academic enrichment of students who wish to broaden their education, with emphasis on personal interest, growth and development. Course work includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers will be provided. Through these skills, students will have a sound base for lifelong learning. Graduates are prepared for advancements within their field of interest and become better qualified for a wide range of employment opportunities.

### Degree

Associate in General Education

## Program of Study

### Program Requirements

#### General Education Requirements (15 credits)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities/Fine Arts Elective (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**

- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- DRA 122 - Oral Interpretation **Credits: 3**
- DRA 126 - Storytelling **Credits: 3**
- DRA 211 - Theatre History I **Credits: 3**
- DRA 212 - Theatre History II **Credits: 3**
- ENG 131 - Introduction to Literature **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 233 - Major American Writers **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 252 - Western World Literature II **Credits: 3**
- ENG 261 - World Literature I **Credits: 3**
- ENG 262 - World Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- HUM 130 - Myth in Human Culture **Credits: 3**
- HUM 160 - Introduction to Film **Credits: 3**
- HUM 161 - Advanced Film Studies **Credits: 3**
- HUM 220 - Human Values and Meaning **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- MUS 114 - Introduction to World Music **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**
- REL 110 - World Religions **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**

- REL 211 - Intro to Old Testament **Credits: 3**
- REL 212 - Intro to New Testament **Credits: 3**
- REL 221 - Religion in America **Credits: 3**

**Natural Science/Mathematics Elective** (Take 3 credits)

- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**
- BIO 140 - Environmental Biology **Credits: 3**  
*and*
- BIO 140A - Environmental Biology Lab **Credits: 1**
- CHM 131 - Introduction to Chemistry **Credits: 3**  
*and*
- CHM 131A - Intro to Chemistry Lab **Credits: 1**
- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**
- GEL 111 - Geology **Credits: 4**
- GEL 113 - Historical Geology **Credits: 4**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 263 - Brief Calculus **Credits: 4**
- MAT 271 - Calculus I **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**
- MAT 273 - Calculus III **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 151 - College Physics I **Credits: 4**

**Social/Behavioral Sciences Elective** (Take 3 credits)

- ANT 210 - General Anthropology **Credits: 3**
- ANT 220 - Cultural Anthropology **Credits: 3**
- ECO 151 - Survey of Economics **Credits: 3**

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 115 - Intro to Global History **Credits: 3**
- HIS 121 - Western Civilization I **Credits: 3**
- HIS 122 - Western Civilization II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 110 - Intro Political Science **Credits: 3**
- POL 120 - American Government **Credits: 3**
- POL 210 - Comparative Government **Credits: 3**
- POL 220 - International Relations **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**
- SOC 230 - Race and Ethnic Relations **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**

## Major Courses

Choose 1 computer course:

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**
- CSC 120 - Computing Fundamentals I **Credits: 4**

## Free Electives (Take 47 credits)

**Note:** Free electives may be any college transfer or vocational technical course numbered 110 or higher as selected by the student and approved by the student's advisor. Courses numbered below 110 in any discipline may not be used for this degree.



**\*COURSES WITH A COE OR WBL PREFIX ARE NOT ALLOWED. ALL COURSES MUST BE AT THE 110-199 OR 210-299 LEVEL**

**Note: Financial assistance is not available for all free-elective courses. Please check with the Financial Aid Office for more information.**

- ACA-122 College Transfer Success **Credits:1**
- ACC-120 Prin of Financial Accounting **Credits:4**
- ACC-121 Prin of Managerial Accounting **Credits:4**
- ACC-122 Prin of Financial Acct II **Credits:3**
- ACC-129 Individual Income Taxes **Credits:3**
- ACC-130 Business Income Taxes **Credits:3**
- ACC-140 Payroll Accounting **Credits:2**
- ACC-150 Accounting Software Appl **Credits:2**
- ACC-175 Hotel and Restaurant Acct **Credits:4**
- ACC-180 Practices in Bookkeeping **Credits:3**
- ACC-220 Intermediate Accounting I **Credits:4**
- ACC-221 Intermediate Acct II **Credits:4**
- ACC-225 Cost Accounting **Credits:3**
- ACC-267 Fraud Examination **Credits:3**
- AGR-139 Intro to Sustainable Ag **Credits:3**
- AHR-110 Intro to Refrigeration **Credits:5**
- AHR-111 HVACR Electricity **Credits:3**
- AHR-112 Heating Technology **Credits:4**
- AHR-113 Comfort Cooling **Credits:4**
- AHR-114 Heat Pump Technology **Credits:4**
- AHR-115 Refrigeration Systems **Credits:2**
- AHR-130 HVAC Controls **Credits:3**
- AHR-133 HVAC Servicing **Credits:4**
- AHR-140 All-Weather Systems **Credits:2**
- AHR-210 Residential Building Code **Credits:2**
- AHR-211 Residential System Design **Credits:3**
- AHR-215 Commercial HVAC Controls **Credits:2**
- AHR-245 Chiller Systems **Credits:2**
- ALT-120 Renewable Energy Tech **Credits:3**
- ALT-250 Thermal Systems **Credits:3**
- ANT-210 General Anthropology **Credits:3**
- ANT-220 Cultural Anthropology **Credits:3**
- ANT-221 Comparative Cultures **Credits:3**
- ANT-230 Physical Anthropology **Credits:3**
- ANT-240 Archaeology **Credits:3**
- ANT-245 World Prehistory **Credits:3**
- ARC-111 Intro to Arch Technology **Credits:3**
- ARC-112 Constr Matls & Methods **Credits:4**
- ARC-113 Residential Arch Tech **Credits:3**
- ARC-114 Architectural CAD **Credits:2**
- ARC-132 Specifications & Contracts **Credits:2**
- ARC-211 Light Constr Technology **Credits:3**
- ARC-213 Design Project **Credits:4**
- ARC-214 Architectural Statics **Credits:3**
- ARC-220 Adv Architect CAD **Credits:2**
- ARC-226 Architectural BIM II **Credits:2**
- ARC-230 Environmental Systems **Credits:4**
- ARC-231 Arch Presentations **Credits:4**
- ARC-235 Architectural Portfolio **Credits: 3**
- ARC-250 Survey of Architecture **Credits:3**
- ARC-225 Architectural BIM I **Credits:2**
- ART-111 Art Appreciation **Credits:3**
- ART-113 Art Methods and Materials **Credits:3**
- ART-114 Art History Survey I **Credits:3**
- ART-115 Art History Survey II **Credits:3**
- ART-116 Survey of American Art **Credits:3**

- ART-117 Non-Western Art History **Credits:3**
- ART-118 Art by Women **Credits:3**
- ART-121 Two-Dimensional Design **Credits:3**
- ART-122 Three-Dimensional Design **Credits:3**
- ART-130 Basic Drawing **Credits:2**
- ART-131 Drawing I **Credits:3**
- ART-132 Drawing II **Credits:3**
- ART-135 Figure Drawing I **Credits:3**
- ART-140 Basic Painting **Credits:2**
- ART-170 The Business of Art **Credits:3**
- ART-171 Digital Design I **Credits:3**
- ART-212 Gallery Assistantship I **Credits:3**
- ART-213 Gallery Assistantship II **Credits:3**
- ART-214 Portfolio and Resume **Credits:1**
- ART-215 Visual Art Portfolio **Credits:3**
- ART-222 2000SP Wood Design I **Credits:3**
- ART-231 Printmaking I **Credits:3**
- ART-232 Printmaking II **Credits:3**
- ART-235 Figure Drawing II **Credits:3**
- ART-240 Painting I **Credits:3**
- ART-241 Painting II **Credits:3**
- ART-242 Landscape Painting **Credits:3**
- ART-243 Portrait Painting **Credits:3**
- ART-244 Watercolor **Credits:3**
- ART-245 2000SP Metals I **Credits:3**
- ART-246 Metals II **Credits:3**
- ART-247 Jewelry I **Credits:3**
- ART-248 Jewelry II **Credits:3**
- ART-250 Surface Design: Textiles **Credits:3**
- ART-251 Weaving I **Credits:3**
- ART-252 Weaving II **Credits:3**
- ART-260 Photography Appreciation **Credits:3**
- ART-261 2000SP Photography I **Credits:3**
- ART-262 2000SP Photography II **Credits:3**
- ART-264 Digital Photography I **Credits:3**
- ART-265 Digital Photography II **Credits:3**
- ART-266 2000SP Videography I **Credits:3**
- ART-267 2000SP Videography II **Credits:3**
- ART-271 Digital Design II **Credits:3**
- ART-275 Introduction to Graphic Design **Credits:3**
- ART-276 Interactive Media Design **Credits:3**
- ART-281 Sculpture I **Credits:3**
- ART-282 Sculpture II **Credits:3**
- ART-283 Ceramics I **Credits:3**
- ART-284 Ceramics II **Credits:3**
- ART-285 Ceramics III **Credits:3**
- ART-286 Ceramics IV **Credits:3**
- ART-288 Studio **Credits:3**
- ASL-111 Elementary ASL I (2ND) **Credits:3**
- ASL-112 Elementary ASL II (2ND) **Credits:3**
- ASL-181 ASL Lab 1 **Credits:1**
- ASL-182 ASL Lab 2 **Credits:1**
- ASL-211 Intermediate ASL I **Credits:3**
- ASL-212 Intermediate ASL II **Credits:3**
- ASL-221 Advanced ASL I **Credits:3**
- ASL-250 Linguistics of ASL **Credits:3**
- ASL-281 ASL Lab 3 **Credits:1**
- ASL-282 ASL Lab 4 **Credits:1**
- AST-111 Descriptive Astronomy **Credits:3**
- AST-151 General Astronomy I **Credits:3**
- AST-152 General Astronomy II **Credits:3**
- AST-251 Observational Astronomy **Credits:2**
- ATR-112 Intro to Automation **Credits: 3**
- ATR-280 Robotic Fundamentals **Credits:4**
- AUB-111 Painting & Refinishing I **Credits:4**



- AUB-112 Painting & Refinishing II **Credits:4**
- AUB-114 Special Finishes **Credits:2**
- AUB-121 Non-Structural Damage I **Credits:3**
- AUB-122 Non-Structural Damage II **Credits:4**
- AUB-131 Structural Damage I **Credits:4**
- AUB-136 Plastics & Adhesives **Credits:3**
- AUB-141 Mech & Elec Components I **Credits:3**
- AUB-162 Autobody Estimating **Credits:2**
- AUC-111 Auto Customizing Research **Credits:3**
- AUC-112 Auto Custom Fabrication **Credits:4**
- AUC-114 Custom Fiberglass Skills **Credits:4**
- AUC-115 Glass Customizing Methods **Credits:4**
- AUC-117 Custom Airbrushing **Credits:4**
- AUT-116 Engine Repair **Credits: 3**
- AUT-123 Powertrain Diagn & Serv **Credits:2**
- AUT-141 Suspension & Steering Sys **Credits: 3**
- AUT-151 Brake Systems **Credits: 3**
- AUT-163 Adv Auto Electricity **Credits: 3**
- AUT-181 Engine Performance 1 **Credits: 3**
- AUT-213 Automotive Servicing 2 **Credits:2**
- AUT-221 Auto Transm/Transaxles **Credits: 3**
- AUT-231 Man Trans/Axles/Dtrains **Credits: 3**
- AUT-281 Adv Engine Performance **Credits:3**
- AUT-212 Auto Shop Management **Credits:3**
- BAF-111 Teller Training **Credits:3**
- BAF-143 Financial Planning **Credits:3**
- BAF-110 Principles of Banking **Credits:3**
- BAF-232 Consumer Lending **Credits:3**
- BAF-234 Residential Mort Lending **Credits:3**
- BAS-120 Intro to Analytics **Credits: 3**
- BAS-121 Data Visualization **Credits: 3**
- BAS-150 Intro to Analytical Program. **Credits: 3**
- BAS-220 Appl. Analytical Program. **Credits: 3**
- BAS-221 Intro to Predictive Analytics **Credits: 3**
- BAS-230 Applied Predictive Modeling **Credits: 3**
- BAS-240 Data Structures for Analytics **Credits: 3**
- BAS-270 Adv Analytical Tools & Methods **Credits: 3**
- BIO-110 Principles of Biology **Credits:4**
- BIO-111 General Biology I **Credits:4**
- BIO-112 General Biology II **Credits:4**
- BIO-120 Introductory Botany **Credits:4**
- BIO-130 Introductory Zoology **Credits:4**
- BIO-140 Environmental Biology **Credits:3**
- BIO-143 Field Biology Minicourse **Credits:2**
- BIO-145 Ecology **Credits:4**
- BIO-146 Regional Natural History **Credits:4**
- BIO-150 Genetics in Human Affairs **Credits:3**
- BIO-155 Nutrition **Credits:3**
- BIO-163 Basic Anat & Physiology **Credits:5**
- BIO-165 Anatomy and Physiology I **Credits:4**
- BIO-166 Anatomy and Physiology II **Credits:4**
- BIO-168 Anatomy and Physiology I **Credits:4**
- BIO-169 Anatomy and Physiology II **Credits:4**
- BIO-175 General Microbiology **Credits:3**
- BIO-180 Biological Chemistry **Credits:3**
- BIO-224 Local Flora Spring **Credits:2**
- BIO-230 Entomology **Credits:4**
- BIO-242 Nat Resource Conservation **Credits:3**

- BIO-243 Marine Biology **Credits:4**
- BIO-250 Genetics **Credits:4**
- BIO-265 Cell Biology **Credits:4**
- BIO-271 Pathophysiology **Credits:3**
- BIO-275 Microbiology **Credits:4**
- BIO-280 Biotechnology **Credits: 3**
- BMS-117 Marine Spray Finishing **Credits:2**
- BMS-118 Basic Boat Operation **Credits:2**
- BPA-120 Petit Fours & Pastries **Credits:3**
- BPA-130 European Cakes and Tortes **Credits:3**
- BPA-150 Artisan & Specialty Bread **Credits:4**
- BPA-165 Hot and Cold Desserts **Credits:3**
- BPA-210 Cake Design & Decorating **Credits:3**
- BPA-220 Confection Artistry **Credits:3**
- BPA-230 Chocolate Artistry **Credits:3**
- BPA-240 Plated Desserts **Credits:3**
- BPA-250 Dessert/Bread Production **Credits:5**
- BPA-260 Pastry & Baking Marketing **Credits:3**
- BPR-130 Print Reading-Construction **Credits:3**
- BTB-111 Fiberglass Boat Bldg II **Credits:5**
- BTB-112 Fiberglass Boat Repairs **Credits:3**
- BTB-110 Fiberglass Boat Bldg I **Credits:5**
- BUS-110 Introduction to Business **Credits:3**
- BUS-115 Business Law I **Credits:3**
- BUS-121 Business Math **Credits:3**
- BUS-125 Personal Finance **Credits:3**
- BUS-135 Principles of Supervision **Credits:3**
- BUS-137 Principles of Management **Credits:3**
- BUS-139 Entrepreneurship I **Credits:3**
- BUS-147 Business Insurance **Credits:3**
- BUS-225 Business Finance **Credits:3**
- BUS-228 Business Statistics **Credits:3**
- BUS-230 Small Business Management **Credits:3**
- BUS-240 Business Ethics **Credits:3**
- BUS-253 Leadership and Mgt Skills **Credits:3**
- BUS-270 Professional Development **Credits:3**
- BUS-285 Business Management Issues **Credits:3**
- CAS-110 Persp Child Maltreatment & Adv **Credits:3**
- CAS-120 Cultural Aware Child Malt/Adv **Credits:3**
- CAS-210 Prof & Sys Resp to Child Malt **Credits:3**
- CAS-220 Resp Survivor of Child Abuse **Credits:3**
- CAT-210 CT Physics & Equipment **Credits:3**
- CAT-211 CT Procedures **Credits: 4**
- CAT-231 CT Clinical Practicum **Credits:11**
- CCT-121 Computer Crime Invest. **Credits:4**
- CCT-110 Intro to Cyber Crime **Credits:3**
- CCT-112 Ethics & High Technology **Credits:3**
- CCT-231 Technology Crimes & Law **Credits:3**
- CCT-251 Network Vulnerabilities II **Credits:3**
- CCT-260 Mobile Phone Examination **Credits:3**
- CCT-289 Cyber Crime Capstone Project **Credits:3**
- CCT-250 Network Vulnerabilities I **Credits:3**
- CEG-111 Intro to Gis and Gnss **Credits:4**
- CEG-211 Hydrology & Erosion Control **Credits: 3**
- CEG-230 Subdivision Planning & Design **Credits:3**
- CET-125 Voice and Data Cabling **Credits: 3**

- CET-130 Operating System Prin **Credits: 3**
- CET-150 Computer Forensics I **Credits: 3**
- CET-172 Internet Technologies **Credits: 3**
- CET-245 Internet Servers **Credits: 3**
- CET-250 Computer Forensics II **Credits: 3**
- CHM-115 Concepts in Chemistry **Credits:3**
- CHM-130 Gen, Org, & Biochemistry **Credits:3**
- CHM-131 Introduction to Chemistry **Credits:3**
- CHM-132 Organic and Biochemistry **Credits:4**
- CHM-135 Survey of Chemistry I **Credits:4**
- CHM-136 Survey of Chemistry II **Credits:4**
- CHM-151 General Chemistry I **Credits:4**
- CHM-152 General Chemistry II **Credits:4**
- CHM-251 Organic Chemistry I **Credits:4**
- CHM-252 Organic Chemistry II **Credits:4**
- CHM-263 Analytical Chemistry **Credits:5**
- CHM-271 Biochemical Principles **Credits:3**
- CIS-111 Basic PC Literacy **Credits:2**
- CIS-110 Introduction to Computers **Credits:3**
- CIS-115 Intro to Prog & Logic **Credits: 3**
- CIV-125 Civil/Surveying CAD **Credits:3**
- CJC-110 Basic Law Enforcement BLET **Credits:20**
- CJC-111 Intro to Criminal Justice **Credits:3**
- CJC-112 Criminology **Credits:3**
- CJC-113 Juvenile Justice **Credits:3**
- CJC-114 Investigative Photography **Credits:2**
- CJC-120 Interviews/Interrogations **Credits:2**
- CJC-121 Law Enforcement Operations **Credits:3**
- CJC-122 Community Policing **Credits:3**
- CJC-131 Criminal Law **Credits:3**
- CJC-132 Court Procedure & Evidence **Credits:3**
- CJC-141 Corrections **Credits:3**
- CJC-151 Intro to Loss Prevention **Credits:3**
- CJC-152 Intro to Sec/Protect Service **Credits:3**
- CJC-153 Private Security Operations **Credits:3**
- CJC-154 Private Security Business **Credits:3**
- CJC-160 Terrorism: Underlying Issu **Credits:3**
- CJC-170 Critical Incident Mgmt Pub Saf **Credits:3**
- CJC-212 Ethics & Comm Relations **Credits:3**
- CJC-213 Substance Abuse **Credits:3**
- CJC-214 Victimology **Credits:3**
- CJC-215 Organization & Administration **Credits:3**
- CJC-221 Investigative Principles **Credits:4**
- CJC-222 Criminalistics **Credits:3**
- CJC-225 Crisis Intervention **Credits:3**
- CJC-231 Constitutional Law **Credits:3**
- CJC-232 Civil Liability **Credits:3**
- CJC-233 Correctional Law **Credits:3**
- CMT-112 Construction Mgt I **Credits:6**
- CMT-120 Codes and Inspections **Credits:3**
- CMT-210 Construction Management Fund **Credits:3**
- CMT-212 Total Safety Performance **Credits:3**
- CMT-214 Planning and Scheduling **Credits:3**
- CMT-218 Human Relations Issues **Credits:3**
- COM-110 Introduction to Communication **Credits:3**
- COM-111 Voice and Diction I **Credits:3**
- COM-120 Intro Interpersonal Com **Credits:3**

- COM-130 Nonverbal Communication **Credits:3**
- COM-140 Intro Intercultural Com **Credits:3**
- COM-150 Intro. to Mass Comm. **Credits:3**
- COM-160 Small Group Communication **Credits:3**
- COM-231 Public Speaking **Credits:3**
- COM-251 Debate I **Credits:3**
- COS-111 Cosmetology Concepts I **Credits:4**
- COS-112 Salon I **Credits:8**
- COS-113 Cosmetology Concepts II **Credits:4**
- COS-114 Salon II **Credits:8**
- COS-115 Cosmetology Concepts III **Credits:4**
- COS-116 Salon III **Credits:4**
- COS-117 Cosmetology Concepts IV **Credits:2**
- COS-118 Salon IV **Credits:7**
- COS-119 Esthetics Concepts I **Credits:2**
- COS-120 Esthetics Salon I **Credits:6**
- COS-125 Esthetics Concepts II **Credits:2**
- COS-126 Esthetics Salon II **Credits:6**
- COS-223 Contemp Hair Coloring **Credits:2**
- COS-224 Trichology & Chemistry **Credits:2**
- COS-240 Contemporary Design **Credits:2**
- COS-260 Design Applications **Credits:2**
- COS-271 Instructor Concepts I **Credits:5**
- COS-272 Instructor Practicum I **Credits:7**
- COS-273 Instructor Concepts II **Credits:5**
- COS-274 Instructor Practicum II **Credits:7**
- CSC-134 C++ Programming **Credits:3**
- CSC-139 Visual BASIC Programming **Credits:3**
- CSC-112 Machine Learning Computation **Credits:3**
- CSC-115 Machine Learning I **Credits:3**
- CSC-161 Deep Learning **Credits:3**
- CSC-113 Artificial Intel. Fundamentals **Credits:3**
- CSC-114 Artificial Intelligence I **Credits:3**
- CSC-117 Artificial Intel. Tools I **Credits:3**
- CSC-120 Computing Fundamentals I **Credits:4**
- CSC-121 Python Programming **Credits:3**
- CSC-128 Chatbot Programming I **Credits:3**
- CSC-130 Computing Fundamentals II **Credits:4**
- CSC-151 JAVA Programming **Credits:3**
- CSC-174 Server-Side Javascript **Credits:3**
- CSC-215 Machine Learning II **Credits:3**
- CSC-221 Advanced Python Programming **Credits:3**
- CSC-214 Artificial Intelligence II **Credits:3**
- CSC-217 Artificial Intel. Tools II **Credits:3**
- CSC-227 Cloud Application Development **Credits:3**
- CSC-228 Chatbot Programming II **Credits:3**
- CSC-234 Advanced C++ Programming **Credits:3**
- CSC-239 Advanced Visual BASIC Prog **Credits:3**
- CSC-249 Data Structure & Algorithms **Credits:3**
- CSC-256 Software Quality Assurance **Credits:3**
- CST-111 Construction I **Credits:4**
- CST-112 Construction II **Credits:4**
- CST-150 Building Science **Credits:3**
- CST-238 Weatherization **Credits:3**
- CST-241 Planning/Estimating I **Credits:3**
- CTC-110 Chemical Safety & Technology **Credits:2**

- CTC-114 Wet Laboratory Techniques **Credits:5**
- CTC-115 Quality Control Laboratory **Credits:5**
- CTC-145 Advanced Laboratory Methods **Credits:6**
- CTC-150 Standards & Solutions **Credits:2**
- CTC-210 Forensic Laboratory **Credits:2**
- CTC-235 Food Chemistry **Credits:2**
- CTC-240 Instru I: Spectroscopy **Credits:6**
- CTC-250 Instru II: Chromatography **Credits:6**
- CTC-260 Chemical Technology Capstone **Credits:2**
- CTI-110 IT Foundations **Credits:3**
- CTI-120 Network & Sec Foundations **Credits:3**
- CTI-175 Intro to Wireless Technology **Credits:3**
- CTI-241 Virtualization Admin II **Credits:3**
- CTI-240 Virtualization Admin I **Credits:3**
- CTS-115 Info Sys Business Concepts **Credits:3**
- CTS-120 Hardware/Software Support **Credits:3**
- CTS-130 Spreadsheet **Credits:3**
- CTS-220 Adv Hard/Software Support **Credits:3**
- CTS-240 Project Management **Credits:3**
- CTS-288 Professional Practices in IT **Credits:3**
- CUL-110 Sanitation & Safety **Credits:2**
- CUL-112 Nutrition for Foodservice **Credits:3**
- CUL-120 Purchasing **Credits:2**
- CUL-130 Menu Design **Credits:2**
- CUL-135 Food & Beverage Service **Credits:2**
- CUL-140 Culinary Skills I **Credits:5**
- CUL-142 Fundamentals of Food **Credits:5**
- CUL-150 Food Science **Credits:2**
- CUL-160 Baking I **Credits:3**
- CUL-170 Garde Manger I **Credits:3**
- CUL-214 Wine Appreciation **Credits:2**
- CUL-230 Global Cuisines **Credits:5**
- CUL-240 Culinary Skills II **Credits:5**
- CUL-245 Contemporary Cuisines **Credits:5**
- CUL-250 Classical Cuisine **Credits:5**
- CUL-260 Baking II **Credits:3**
- CUL-270 Garde Manger II **Credits:3**
- CUL-275 Catering Cuisine **Credits:5**
- CUL-280 Pastry & Confections **Credits:3**
- CUL-283 Farm-To-Table **Credits:5**
- CUL-285 Competition Fundamentals **Credits:3**
- CVS-160 CVS Clinical Ed I **Credits:5**
- CVS-161 CVS Clinical Ed II **Credits:8**
- CVS-162 CVS Clinical Ed III **Credits:5**
- CVS-163 Echo I **Credits:4**
- CVS-164 Echo II **Credits:4**
- CVS-260 CVS Clinical Ed IV **Credits:8**
- CVS-261 CVS Clinical Ed V **Credits:8**
- CVS-277 Cardiovascular Topics **Credits:2**
- DBA-110 Database Concepts **Credits:3**
- DBA-120 Database Programming I **Credits:3**
- DBA-210 Database Administration **Credits:3**
- DDF-211 Design Process I **Credits:4**
- DDF-212 Design Process II **Credits:4**
- DEA-111 Introduction to DEAT **Credits:3**
- DEN-110 Orofacial Anatomy **Credits:3**
- DEN-120 Dental Hyg Preclinic Lec **Credits:2**
- DEN-121 Dental Hygiene Precl Lab **Credits:2**

- DEN-123 Nutrition/Dental Health **Credits:2**
- DEN-124 Periodontology **Credits:2**
- DEN-125 Dental Office Emergencies **Credits:1**
- DEN-130 Dental Hygiene Theory I **Credits:2**
- DEN-131 Dental Hygiene Clinic I **Credits:3**
- DEN-140 Dental Hygiene Theory II **Credits:2**
- DEN-141 Dental Hygiene Clinic II **Credits:2**
- DEN-111 Infection/Hazard Control **Credits:2**
- DEN-112 Dental Radiography **Credits:3**
- DEN-220 Dental Hygiene Theory III **Credits:2**
- DEN-221 Dental Hygiene Clinic III **Credits:4**
- DEN-222 General & Oral Pathology **Credits:2**
- DEN-223 Dental Pharmacology **Credits:2**
- DEN-224 Materials and Procedures **Credits:2**
- DEN-230 Dental Hygiene Theory IV **Credits:1**
- DEN-231 Dental Hygiene Clinic IV **Credits:4**
- DEN-232 Community Dental Health **Credits:3**
- DEN-233 Professional Development **Credits:2**
- DES-110 Architectural Graphics **Credits:2**
- DES-111 Creative Problem Solving **Credits:2**
- DES-112 Bldg/Construc Sys **Credits:3**
- DES-120 CAD for Interior Design **Credits:2**
- DES-125 Visual Presentation I **Credits:2**
- DES-130 Digital App/Interior Design **Credits:3**
- DES-135 Prin & Elem of Design I **Credits:4**
- DES-136 Prin & Elem of Design II **Credits:4**
- DES-210 Professional Practices/Int Des **Credits:2**
- DES-220 Interior Design Fundamentals **Credits:3**
- DES-225 Textiles for Interiors **Credits:3**
- DES-230 Residential Design I **Credits:3**
- DES-235 Products **Credits:3**
- DES-238 Sustainable Interiors **Credits:3**
- DES-240 Commercial/Contract Design I **Credits:3**
- DES-241 Comm/Contract Design II **Credits:3**
- DES-242 Kitchen/Bath Design **Credits:3**
- DES-243 Advanced Kitchen/Bath Design **Credits:3**
- DES-255 History of Interiors & Furn I **Credits:3**
- DES-256 History of Interiors & Furn II **Credits:3**
- DES-260 Materials Calc/Int Design **Credits:3**
- DES-265 Lighting/Interior Design **Credits:2**
- DES-285 Capstone/Interior Design **Credits:4**
- DFT-111 Technical Drafting I **Credits:2**
- DFT-112 Technical Drafting II **Credits:2**
- DFT-119 Basic CAD **Credits:2**
- DFT-151 CAD I **Credits:3**
- DFT-152 CAD II **Credits:3**
- DFT-154 Intro Solid Modeling **Credits:3**
- DFT-170 Engineering Graphics **Credits:3**
- DFT-231 Jig & Fixture Design **Credits:2**
- DFT-254 Intermed Solid Model/Render **Credits:3**
- DME-110 Intro to Digital Media **Credits:3**
- DRA-111 Theatre Appreciation **Credits:3**
- DRA-112 Literature of the Theatre **Credits:3**
- DRA-115 Theatre Criticism **Credits:3**
- DRA-118 Script Analysis **Credits:3**
- DRA-120 Voice for Performance **Credits:3**
- DRA-122 Oral Interpretation **Credits:3**



- DRA-124 Readers Theatre **Credits:3**
- DRA-126 Storytelling **Credits:3**
- DRA-128 Children's Theatre **Credits:3**
- DRA-130 Acting I **Credits:3**
- DRA-131 Acting II **Credits:3**
- DRA-132 Stage Movement **Credits:3**
- DRA-135 Acting for the Camera I **Credits:3**
- DRA-136 Acting for the Camera II **Credits:3**
- DRA-140 Stagecraft I **Credits:3**
- DRA-141 Stagecraft II **Credits:3**
- DRA-142 Costuming **Credits:3**
- DRA-144 Introduction to Stage Design **Credits:3**
- DRA-145 Stage Make-Up **Credits:2**
- DRA-170 Play Production I **Credits:3**
- DRA-171 Play Production II **Credits:3**
- DRA-175 Teleplay Production I **Credits:3**
- DRA-211 Theatre History I **Credits:3**
- DRA-212 Theatre History II **Credits:3**
- DRA-230 Acting III **Credits:3**
- DRA-231 Acting IV **Credits:3**
- DRA-240 Lighting for the Theatre **Credits:3**
- DRA-260 Directing **Credits:3**
- DRA-270 Play Production III **Credits:3**
- DRA-271 Play Production IV **Credits:3**
- ECO-151 Survey of Economics **Credits:3**
- ECO-251 Prin of Microeconomics **Credits:3**
- ECO-252 Prin of Macroeconomics **Credits:3**
- EDU-119 Intro to Early Child Education **Credits:4**
- EDU-131 Child, Family, and Community **Credits:3**
- EDU-144 Child Development I **Credits:3**
- EDU-145 Child Development II **Credits:3**
- EDU-146 Child Guidance **Credits:3**
- EDU-151 Creative Activities **Credits:3**
- EDU-153 Health, Safety and Nutrition **Credits:3**
- EDU-162 Observ & Assess in ECE **Credits:3**
- EDU-163 Classroom Mgmt and Instruction **Credits:3**
- EDU-177 Instructional Methods **Credits:3**
- EDU-188 Trends/Policies in Early Child **Credits:3**
- EDU-187 Teaching and Learning for All **Credits:4**
- EDU-221 Children With Exceptionalities **Credits:3**
- EDU-234 Infants, Toddlers, and Twos **Credits:3**
- EDU-235 School-Age Develop & Programs **Credits:3**
- EDU-243 Learning Theory **Credits:3**
- EDU-251 Exploration Activities **Credits:3**
- EDU-259 Curriculum Planning **Credits:3**
- EDU-261 Early Childhood Admin I **Credits:3**
- EDU-262 Early Childhood Admin II **Credits:3**
- EDU-270 Effective Instructional Enviro **Credits:2**
- EDU-271 Educational Technology **Credits:3**
- EDU-272 Technology, Data, and Assess **Credits:3**
- EDU-277 Integr CU Inst: Math/Science **Credits:3**
- EDU-278 Integr CU Inst: Soc Stu/ELA **Credits:3**
- EDU-280 Language/Literacy Experiences **Credits:3**
- EDU-283 Educator Preparation Practicum **Credits:3**



- EDU-284 Early Child Capstone Prac **Credits:4**
- EDU-216 Foundations of Education **Credits:3**
- EDU-279 Literacy Develop and Instruct **Credits:4**
- EDU-250 Teacher Licensure Preparation **Credits:3**
- EGR-120 Eng and Design Graphics **Credits:3**
- EGR-110 Intro to Engineering Tech **Credits:2**
- EGR-150 Intro to Engineering **Credits:2**
- EGR-115 Intro to Technology **Credits:3**
- EGR-210 Intro to Elec/Comp Eng Lab **Credits:2**
- EGR-215 Network Theory I **Credits:3**
- EGR-216 Logic and Network Lab **Credits:1**
- EGR-228 Intro to Solid Mechanics **Credits:3**
- EGR-212 Logic System Design I **Credits:3**
- EGR-214 Num Methods for Engineers **Credits:3**
- EGR-220 Engineering Statics **Credits:3**
- EGR-225 Engineering Dynamics **Credits:3**
- EGR-251 Statics **Credits:3**
- EGR-252 Strength of Materials **Credits:3**
- ELC-114 Commercial Wiring **Credits:4**
- ELC-117 Motors and Controls **Credits:4**
- ELC-115 Industrial Wiring **Credits:4**
- ELC-118 National Electrical Code **Credits:2**
- ELC-119 NEC Calculations **Credits:2**
- ELC-125 Diagrams and Schematics **Credits:2**
- ELC-133 Circuit Analysis II **Credits:4**
- ELC-131 Circuit Analysis I **Credits:4**
- ELC-112 DC/AC Electricity **Credits:5**
- ELC-121 Electrical Estimating **Credits:2**
- ELC-113 Residential Wiring **Credits:4**
- ELC-128 Intro to PLC **Credits:3**
- ELC-111 Intro to Electricity **Credits:3**
- ELC-213 Instrumentation **Credits:4**
- ELC-220 Photovoltaic Sys Tech **Credits:3**
- ELC-221 Adv PV Sys Designs **Credits:3**
- ELC-228 PLC Applications **Credits:4**
- ELC-230 Wind & Hydro Power Sys **Credits:3**
- ELN-131 Analog Electronics I **Credits:4**
- ELN-132 Analog Electronics II **Credits:4**
- ELN-133 Digital Electronics **Credits:4**
- ELN-152 Fabrication Techniques **Credits:2**
- ELN-114 Marine Electronics **Credits:2**
- ELN-231 Industrial Controls **Credits:3**
- ELN-234 Communication Systems **Credits:4**
- ELN-236 Fiber Optics and Lasers **Credits:4**
- ELN-275 Troubleshooting **Credits:2**
- ELN-238 Advanced LANs **Credits:3**
- EMS-110 EMT **Credits:9**
- EMS-122 EMS Clinical Practicum I **Credits:1**
- EMS-125 EMS Instructor Methodology **Credits:3**
- EMS-130 Pharmacology **Credits:4**
- EMS-131 Advanced Airway Management **Credits:2**
- EMS-140 Rescue Scene Management **Credits:2**
- EMS-160 Cardiology I **Credits: 3**
- EMS-210 Adv. Patient Assessment **Credits:2**
- EMS-220 Cardiology II **Credits: 3**
- EMS-221 EMS Clinical Practicum II **Credits:2**
- EMS-231 EMS Clinical Pract III **Credits:3**
- EMS-235 EMS Management **Credits:2**
- EMS-240 Patients W/ Special Challenges **Credits:2**
- EMS-241 EMS Clinical Practicum IV **Credits:4**

- EMS-250 Medical Emergencies **Credits:4**
- EMS-260 Trauma Emergencies **Credits:2**
- EMS-270 Life Span Emergencies **Credits:4**
- EMS-280 EMS Bridging Course **Credits:3**
- EMS-285 EMS Capstone **Credits:2**
- ENG-111 Writing and Inquiry **Credits:3**
- ENG-112 Writing/Research in the Disc **Credits:3**
- ENG-113 Literature-Based Research **Credits:3**
- ENG-114 Prof Research & Reporting **Credits:3**
- ENG-125 Creative Writing I **Credits:3**
- ENG-126 Creative Writing II **Credits:3**
- ENG-127 Fiction Writing **Credits:3**
- ENG-128 Poetry Writing **Credits:3**
- ENG-129 Creative Nonfiction Writing **Credits:3**
- ENG-131 Introduction to Literature **Credits:3**
- ENG-132 Introduction to Drama **Credits:3**
- ENG-134 Introduction to Poetry **Credits:3**
- ENG-231 American Literature I **Credits:3**
- ENG-232 American Literature II **Credits:3**
- ENG-233 Major American Writers **Credits:3**
- ENG-235 Survey of Film As Lit **Credits:3**
- ENG-241 British Literature I **Credits:3**
- ENG-242 British Literature II **Credits:3**
- ENG-243 Major British Writers **Credits:3**
- ENG-251 Western World Literature I **Credits:3**
- ENG-252 Western World Literature II **Credits:3**
- ENG-253 The Bible As Literature **Credits:3**
- ENG-261 World Literature I **Credits:3**
- ENG-262 World Literature II **Credits:3**
- ENG-271 Contemporary Literature **Credits:3**
- ENG-272 Southern Literature **Credits:3**
- ENG-273 African-American Literature **Credits:3**
- ENG-274 Literature by Women **Credits:3**
- ENG-275 Science Fiction **Credits:3**
- ENV-110 Environmental Science **Credits:3**
- EPT-120 Sociology of Disaster **Credits:3**
- EPT-124 EM Services Law & Ethics **Credits:3**
- EPT-130 Mitigation & Preparedness **Credits:3**
- EPT-140 Emergency Management **Credits:3**
- EPT-150 Incident Management **Credits:3**
- EPT-210 Response & Recovery **Credits:3**
- EPT-220 Terrorism and Emer. Mgt. **Credits:3**
- EPT-230 Emergency Planning **Credits:3**
- EPT-275 Emergency Ops Center Mgt **Credits:3**
- EPT-260 Business Continuity **Credits:3**
- FIP-120 Intro to Fire Protection **Credits:3**
- FIP-124 Fire Prevention & Public Ed **Credits:3**
- FIP-128 Detection & Investigation **Credits:3**
- FIP-132 Building Construction **Credits:3**
- FIP-136 Inspections & Codes **Credits:3**
- FIP-152 Fire Protection Law **Credits:3**
- FIP-156 Computers in Fire Svc **Credits:2**
- FIP-162 2015SP Firefighter Safety & Wellness **Credits:3**
- FIP-164 OSHA Standards **Credits:3**
- FIP-220 Fire Fighting Strategies **Credits:3**
- FIP-221 Adv Fire Fighting Strat **Credits:3**
- FIP-228 Local Govt Finance **Credits:3**
- FIP-229 Fire Dynamics and Combust **Credits:3**

- FIP-240 Fire Service Supervision **Credits:3**
- FIP-256 Munic Public Relations **Credits:3**
- FIP-276 Managing Fire Services **Credits:3**
- FRE-111 Elementary French I (2ND) **Credits:3**
- FRE-112 Elementary French II (2ND) **Credits:3**
- FRE-141 Culture and Civilization **Credits:3**
- FRE-151 Francophone Literature **Credits:3**
- FRE-161 Cultural Immersion **Credits: 3**
- FRE-181 French Lab 1 **Credits:1**
- FRE-182 French Lab 2 **Credits:1**
- FRE-211 Intermediate French I **Credits:3**
- FRE-212 Intermediate French II **Credits:3**
- FRE-221 French Conversation **Credits:3**
- FRE-231 Reading and Composition **Credits:3**
- FVP-111 Intro. to Film and Video **Credits: 3**
- FVP-112 Art Dept Operations I **Credits:3**
- FVP-113 Grip & Electrical I **Credits:3**
- FVP-114 Camera & Lighting I **Credits: 3**
- FVP-115 Camera & Lighting II **Credits: 3**
- FVP-116 Sound Operations **Credits: 3**
- FVP-117 Make-Up & Wardrobe **Credits: 3**
- FVP-120 Art Dept. Operations II **Credits:3**
- FVP-130 Grip and Electrical II **Credits:3**
- FVP-212 Production Techniques I **Credits:5**
- FVP-213 Production Techniques II **Credits:5**
- FVP-215 Production Management **Credits: 3**
- FVP-220 Editing I **Credits: 3**
- FVP-221 Editing II **Credits: 3**
- FVP-223 Postproduct. Sound Design **Credits:3**
- FVP-227 Multimedia Production **Credits: 3**
- FVP-240 Introduction to Screenwriting **Credits:3**
- FVP-250 Production Specialties I **Credits:3**
- FVP-251 Product. Specialities II **Credits:3**
- GEL-111 Geology **Credits:4**
- GEL-113 Historical Geology **Credits:4**
- GEL-120 Physical Geology **Credits:4**
- GEL-230 Environmental Geology **Credits:4**
- GER-111 Elementary German I (2ND) **Credits:3**
- GER-112 Elementary German II (2ND) **Credits:3**
- GER-141 Culture and Civilization **Credits:3**
- GER-161 Cultural Immersion **Credits: 3**
- GER-181 German Lab 1 **Credits:1**
- GER-182 German Lab 2 **Credits:1**
- GER-211 Intermediate German I **Credits:3**
- GER-212 Intermediate German II **Credits:3**
- GER-221 German Conversation **Credits:3**
- GER-231 Reading and Composition **Credits:3**
- GIS-111 Introduction to GIS **Credits:3**
- GRD-110 Typography I **Credits: 3**
- GRD-131 Illustration I **Credits:3**
- GRD-132 Illustration II **Credits:3**
- GRD-142 Graphic Design II **Credits:4**
- GRD-151 Computer Design Basics **Credits:3**
- GRD-152 Computer Design Technology **Credits:3**
- GRD-241 Graphic Design III **Credits:4**
- GRD-271 Multimedia and Video I **Credits:3**
- GRD-275 Animation I **Credits:3**
- GRD-280 Portfolio Design **Credits:4**
- GRO-120 Intro to Gerontology **Credits:3**
- HBI-113 Survey of Med Insurance **Credits:3**
- HBI-110 Issues and Trends in HBI **Credits:3**
- HBI-250 Data Mgmt and Utilization **Credits:3**

- HBI-289 HBI Project **Credits:3**
- HEA-110 Personal Health/Wellness **Credits:3**
- HEA-112 First Aid & CPR **Credits:2**
- HEA-120 Community Health **Credits:3**
- HEA-130 Health-Adult Sexuality **Credits:3**
- HET-128 Medium/Heavy Duty Tune Up **Credits:2**
- HET-134 Diesel Fuel & Power Sys **Credits: 3**
- HET-115 Electronic Engines **Credits: 3**
- HET-110 Diesel Engines **Credits:6**
- HET-114 Power Trains **Credits:5**
- HET-125 Preventive Maintenance **Credits:2**
- HET-229 Brakes and Steering **Credits:2**
- HET-230 Air Brakes **Credits:2**
- HFS-110 Exercise Science **Credits: 4**
- HFS-111 Fitness & Exer Testing I **Credits:4**
- HFS-116 Pvnt & Care Exer Injuries **Credits:3**
- HFS-118 Fitness Facility Mgmt **Credits: 4**
- HFS-120 Group Exer Instruction **Credits:3**
- HFS-210 Personal Training **Credits:3**
- HFS-212 Exercise Programming **Credits:3**
- HFS-218 Lifestyle Chng & Wellness **Credits:4**
- HIS-111 World Civilizations I **Credits:3**
- HIS-112 World Civilizations II **Credits:3**
- HIS-115 Intro to Global History **Credits:3**
- HIS-116 Current World Problems **Credits:3**
- HIS-121 Western Civilization I **Credits:3**
- HIS-122 Western Civilization II **Credits:3**
- HIS-131 American History I **Credits:3**
- HIS-132 American History II **Credits:3**
- HIS-141 Genealogy & Local History **Credits:3**
- HIS-145 The Second World War **Credits:3**
- HIS-151 Hispanic Civilization **Credits:3**
- HIS-162 Women and History **Credits:3**
- HIS-163 The World Since 1945 **Credits:3**
- HIS-165 Twentieth-Century World **Credits:3**
- HIS-167 The Vietnam War **Credits:3**
- HIS-211 Ancient History **Credits:3**
- HIS-212 Medieval History **Credits:3**
- HIS-216 Twentieth-Century Europe **Credits:3**
- HIS-221 African-American History **Credits:3**
- HIS-222 African-American Hist I **Credits:3**
- HIS-223 African-American Hist II **Credits:3**
- HIS-226 The Civil War **Credits:3**
- HIS-227 Native American History **Credits:3**
- HIS-228 History of the South **Credits:3**
- HIS-229 History of the Old South **Credits:3**
- HMT-110 Intro to Healthcare Mgt **Credits:3**
- HOR-112 Landscape Design I **Credits: 3**
- HOR-114 Landscape Construction **Credits:3**
- HOR-118 Equipment Op & Maint **Credits:2**
- HOR-124 Nursery Operations **Credits: 3**
- HOR-134 Greenhouse Operations **Credits:3**
- HOR-160 Plant Materials I **Credits:3**
- HOR-161 Plant Materials II **Credits:3**
- HOR-162 Applied Plant Science **Credits:3**
- HOR-164 Hort Pest Management **Credits:3**
- HOR-166 Soils & Fertilizers **Credits:3**
- HOR-168 Plant Propagation **Credits:3**
- HOR-213 Landscape Design II **Credits:3**
- HRM-110 Intro to Hosp & Tourism **Credits:3**
- HRM-115 Housekeeping **Credits:3**
- HRM-120 Front Office Procedures **Credits:3**
- HRM-124 Guest Service Management **Credits:3**
- HRM-130 Bed and Breakfast Mgt. **Credits:3**

- HRM-135 Facilities Management **Credits:3**
- HRM-140 Legal Issues-Hospitality **Credits:3**
- HRM-160 Info Systems for Hosp **Credits:3**
- HRM-180 The Business of Tourism **Credits:3**
- HRM-210 Meetings & Event Planning **Credits:3**
- HRM-215 Restaurant Management **Credits:3**
- HRM-220 Cost Control-Food & Bev **Credits:3**
- HRM-225 Beverage Management **Credits:3**
- HRM-228 Mixology **Credits:3**
- HRM-230 Club & Resort Management **Credits:3**
- HRM-240 Marketing for Hospitality **Credits:3**
- HRM-245 Human Resource Mgmt-Hosp **Credits:3**
- HRM-260 Procurement for Hosp **Credits:3**
- HRM-275 Leadership-Hospitality **Credits:3**
- HRM-280 Mgmt Problems-Hospitality **Credits:3**
- HRM-285 Service Projects-Hosp **Credits:5**
- HSE-110 Intro to Human Services **Credits:3**
- HSE-112 Group Process I **Credits:2**
- HSE-123 Interview Tech Human Service **Credits:3**
- HSE-125 Counseling **Credits:3**
- HSE-127 Conflict Resolution **Credits:3**
- HSE-135 Orientation Lab I **Credits:1**
- HSE-170 Recovery Services **Credits:3**
- HSE-212 Group Dynamics **Credits:3**
- HSE-223 Counseling Theories & Skills **Credits:3**
- HSE-210 Diversity Ethics and Trends **Credits:3**
- HSE-220 Case Management **Credits:3**
- HSE-225 Crisis and Intervention Prin **Credits:3**
- HSE-227 Children & Adol in Crisis **Credits:3**
- HUM-110 Technology and Society **Credits:3**
- HUM-115 Critical Thinking **Credits:3**
- HUM-120 Cultural Studies **Credits:3**
- HUM-121 The Nature of America **Credits:3**
- HUM-122 Southern Culture **Credits:3**
- HUM-123 Appalachian Culture **Credits:3**
- HUM-130 Myth in Human Culture **Credits:3**
- HUM-140 History of Architecture **Credits:3**
- HUM-150 American Women's Studies **Credits:3**
- HUM-160 Introduction to Film **Credits:3**
- HUM-161 Advanced Film Studies **Credits:3**
- HUM-170 The Holocaust **Credits:3**
- HUM-180 Internat Cultural Explor **Credits: 3**
- HUM-211 Humanities I **Credits:3**
- HUM-212 Humanities II **Credits:3**
- HUM-220 Human Values and Meaning **Credits:3**
- HUM-230 Leadership Development **Credits:3**
- HYD-110 Hydraulics/Pneumatics I **Credits: 3**
- HYD-112 Hydraulics-Med/Heavy Duty **Credits:2**
- INS-129 Property & Casualty Insurance **Credits:3**
- INS-121 Life Insurance **Credits:3**
- INS-122 Accident and Health Insurance **Credits:3**
- INT-110 International Business **Credits:3**
- IPP-111 Intro to Interpretation **Credits:3**
- IPP-112 Comparative Cultures **Credits:3**
- IPP-130 Analytical Skills for Int **Credits:3**

- IPP-152 ASL/English Translation **Credits:3**
- IPP-161 Consecutive Interpreting **Credits:5**
- IPP-221 Simultaneous Interpret I **Credits:5**
- IPP-224 ASL to English Interpret **Credits:2**
- IPP-240 Ethical Stnds & Practices **Credits:3**
- ISC-131 Quality Management **Credits:3**
- ISC-136 Productivity Analysis I **Credits: 3**
- ISC-112 Industrial Safety **Credits:2**
- ISC-130 Intro to Quality Control **Credits:3**
- ISC-121 Envir Health & Safety **Credits:3**
- ISC-210 Oper & Prod Planning **Credits:3**
- ISC-220 Lean Manufacturing **Credits:3**
- LET-110 Basic Law Enforcement BLET **Credits:37**
- LEX-110 Intro to Paralegal Study **Credits:2**
- LEX-120 Legal Research/Writing I **Credits:3**
- LEX-121 Legal Research/Writing II **Credits:3**
- LEX-130 Civil Injuries **Credits:3**
- LEX-140 Civil Litigation I **Credits:3**
- LEX-141 Civil Litigation II **Credits:3**
- LEX-150 Commercial Law I **Credits:3**
- LEX-151 Commercial Law II **Credits:3**
- LEX-160 Criminal Law & Procedure **Credits:3**
- LEX-170 Administrative Law **Credits:2**
- LEX-210 Real Property I **Credits:3**
- LEX-211 Real Property II **Credits:3**
- LEX-240 Family Law **Credits:3**
- LEX-250 Wills, Estates, & Trusts **Credits:3**
- LEX-260 Bankruptcy and Collections **Credits:3**
- LEX-270 Law Office Mgt/Technology **Credits:2**
- LEX-273 NCCP Review Course **Credits:2**
- LEX-280 Ethics & Professionalism **Credits:2**
- LEX-288 Elder Law **Credits:3**
- LSG-111 Basic Landscape Technique **Credits:2**
- LSG-121 Fall Gardening Lab **Credits:2**
- LSG-122 Spring Gardening Lab **Credits:2**
- LSG-123 Summer Gardening Lab **Credits:2**
- LSG-232 Garden Management **Credits:2**
- MAC-111 Machining Technology I **Credits:6**
- MAC-112 Machining Technology II **Credits:6**
- MAC-113 Machining Technology III **Credits:6**
- MAC-121 Intro to CNC **Credits:2**
- MAC-122 CNC Turning **Credits:2**
- MAC-124 CNC Milling **Credits:2**
- MAC-131 Blueprint Reading/Mach I **Credits:2**
- MAC-132 Blueprint Reading/Mach II **Credits:2**
- MAC-152 Adv Machining Calc **Credits:2**
- MAC-222 Advanced CNC Turning **Credits:2**
- MAC-224 Advanced CNC Milling **Credits:2**
- MAC-233 Appl in CNC Machining **Credits:6**
- MAC-241 Jigs & Fixtures I **Credits:4**
- MAC-245 Mold Construction I **Credits:4**
- MAC-248 Production Procedures **Credits:2**
- MAT-110 Math Measurement & Literacy **Credits:3**
- MAT-121 Algebra/Trigonometry I **Credits:3**
- MAT-141 Mathematical Concepts I **Credits:3**
- MAT-142 Mathematical Concepts II **Credits:3**
- MAT-143 Quantitative Literacy **Credits:3**
- MAT-152 Statistical Methods I **Credits:4**
- MAT-167 Discrete Mathematics **Credits:3**
- MAT-171 Precalculus Algebra **Credits:4**
- MAT-172 Precalculus Trigonometry **Credits:4**
- MAT-175 Precalculus **Credits:5**



- MAT-252 Statistical Methods II **Credits:4**
- MAT-263 2024SP Brief Calculus **Credits:4**
- MAT-271 2024SP Calculus I **Credits:4**
- MAT-272 Calculus II **Credits:4**
- MAT-273 Calculus III **Credits:4**
- MAT-280 Linear Algebra **Credits:3**
- MAT-285 Differential Equations **Credits:3**
- MEC-111 Machine Processes I **Credits:3**
- MEC-130 Mechanisms **Credits:3**
- MEC-145 Mfg Materials I **Credits:3**
- MEC-231 Comp-Aided Manufact I **Credits:3**
- MEC-232 Comp-Aided Manufact II **Credits:3**
- MED-110 Orientation to Med Assist **Credits:1**
- MED-116 Introduction to A & P **Credits:4**
- MED-118 Medical Law and Ethics **Credits:2**
- MED-130 Admin Office Proc I **Credits:2**
- MED-131 Admin Office Proc II **Credits:2**
- MED-136 Preventive Health **Credits:2**
- MED-140 Exam Room Procedures I **Credits:5**
- MED-150 Laboratory Procedures I **Credits:5**
- MED-120 Survey of Med Terminology **Credits:2**
- MED-121 Medical Terminology I **Credits:3**
- MED-122 Medical Terminology II **Credits:3**
- MED-260 MED Clinical Practicum **Credits:5**
- MED-264 Med Assisting Overview **Credits:2**
- MED-270 Symptomatology **Credits:3**
- MED-272 Drug Therapy **Credits:3**
- MED-274 Diet Therapy/Nutrition **Credits:3**
- MED-276 Patient Education **Credits:2**
- MHA-155 Psychological Assessment **Credits:3**
- MHA-140 Intro to Mental Health **Credits:3**
- MHA-150 Mental Health Interventions **Credits:3**
- MHA-238 Psychopathology **Credits:3**
- MHA-240 Advocacy **Credits:3**
- MKT-120 Principles of Marketing **Credits:3**
- MKT-220 Advertising and Sales Promotio **Credits:3**
- MKT-221 Consumer Behavior **Credits:3**
- MKT-223 Customer Experience **Credits:3**
- MKT-224 International Marketing **Credits:3**
- MKT-225 Marketing Research **Credits:3**
- MKT-227 Marketing Applications **Credits:3**
- MKT-232 Social Media Marketing **Credits:3**
- MLT-110 Intro to MLT **Credits:3**
- MLT-111 Urinalysis & Body Fluids **Credits:2**
- MLT-115 Laboratory Calculations **Credits:2**
- MLT-120 Hematology/Hemostasis I **Credits:4**
- MLT-126 Immunology and Serology **Credits:2**
- MLT-127 Transfusion Medicine **Credits:3**
- MLT-130 Clinical Chemistry I **Credits:4**
- MLT-140 Intro to Microbiology **Credits:3**
- MLT-217 Professional Issues **Credits:1**
- MLT-220 Hematology/Hemostasis II **Credits:3**
- MLT-230 Clinical Chemistry II **Credits:3**
- MLT-240 Special Clin Microbiology **Credits:3**
- MLT-254 MLT Practicum I **Credits:4**
- MLT-266 MLT Practicum II **Credits: 6**
- MLT-276 MLT Practicum III **Credits: 6**
- MLT-280 Special Practice Lab **Credits:1**
- MNT-110 Intro to Maint Procedures **Credits:2**
- MRI-210 MRI Physics and Equipment **Credits:3**
- MRI-211 MRI Procedures **Credits:4**



- MRI-231 MRI Clinical Practicum **Credits:11**
- MRN-121 Marine Engines **Credits:4**
- MRN-147 Marine Power Trains **Credits:4**
- MRN-150 Adv Marine Electrical Sys **Credits:5**
- MSC-110 Training Cruise I **Credits:1**
- MSC-112 Training Cruise II **Credits:1**
- MSC-114 Training Cruise III **Credits:1**
- MSC-122 Boat Handling/Seamanship **Credits:3**
- MSC-124 Industrial Skills **Credits:3**
- MSC-126 Marine Engines **Credits:2**
- MSC-132 Fishing Gear Tech I **Credits:3**
- MSC-134 Fishing Gear Tech II **Credits:2**
- MSC-150 Marine Navigation **Credits:3**
- MSC-152 Marine Instrumentation **Credits:2**
- MSC-160 Oceanography **Credits:3**
- MSC-172 Marine Biology **Credits:3**
- MSC-174 Marine Invertebrate Zoo **Credits:4**
- MSC-180 Water Analysis **Credits:3**
- MSC-210 Marine Envir Samp&Analysis **Credits:2**
- MSC-216 Training Cruise IV **Credits:1**
- MSC-218 Training Cruise V **Credits:1**
- MSC-220 Marine GIS **Credits:3**
- MSC-254 Marine Data Processing **Credits:2**
- MSC-256 Cartogr/Hydro Surveying **Credits:2**
- MSC-276 Marine Vertebrate Zoo **Credits:4**
- MUS-110 Music Appreciation **Credits:3**
- MUS-111 Fundamentals of Music **Credits:3**
- MUS-112 Introduction to Jazz **Credits:3**
- MUS-113 American Music **Credits:3**
- MUS-114 Introduction to World Music **Credits:3**
- MUS-121 Music Theory I **Credits:3**
- MUS-122 Music Theory II **Credits:3**
- MUS-123 Music Composition **Credits:1**
- MUS-125 Aural Skills I **Credits:1**
- MUS-126 Aural Skills II **Credits:1**
- MUS-131 Chorus I **Credits:1**
- MUS-132 Chorus II **Credits:1**
- MUS-133 Band I **Credits:1**
- MUS-134 Band II **Credits:1**
- MUS-135 Jazz Ensemble I **Credits:1**
- MUS-136 Jazz Ensemble II **Credits:1**
- MUS-137 Orchestra I **Credits:1**
- MUS-138 Orchestra II **Credits:1**
- MUS-141 Ensemble I **Credits:1**
- MUS-142 Ensemble II **Credits:1**
- MUS-151 Class Music I **Credits:1**
- MUS-152 Class Music II **Credits:1**
- MUS-161 Applied Music I **Credits:2**
- MUS-162 Applied Music II **Credits:2**
- MUS-170 Business of Music **Credits:3**
- MUS-173 Opera Production I **Credits:3**
- MUS-174 Opera Production II **Credits:3**
- MUS-181 Show Choir I **Credits:4**
- MUS-182 Show Choir II **Credits:4**
- MUS-210 History of Rock Music **Credits:3**
- MUS-211 History of Country Music **Credits:3**
- MUS-212 American Musical Theatre **Credits:3**
- MUS-213 Opera and Musical Theatre **Credits:3**
- MUS-214 Electronic Music I **Credits:2**
- MUS-215 Electronic Music II **Credits:2**
- MUS-217 Elementary Conducting **Credits:2**
- MUS-221 Music Theory III **Credits:3**

- MUS-222 Music Theory IV **Credits:3**
- MUS-225 Aural Skills III **Credits:1**
- MUS-226 Aural Skills IV **Credits:1**
- MUS-231 Chorus III **Credits:1**
- MUS-232 Chorus IV **Credits:1**
- MUS-233 Band III **Credits:1**
- MUS-234 Band IV **Credits:1**
- MUS-235 Jazz Ensemble III **Credits:1**
- MUS-236 Jazz Ensemble IV **Credits:1**
- MUS-237 Orchestra III **Credits:1**
- MUS-238 Orchestra IV **Credits:1**
- MUS-241 Ensemble III **Credits:1**
- MUS-242 Ensemble IV **Credits:1**
- MUS-251 Class Music III **Credits:1**
- MUS-252 Class Music IV **Credits:1**
- MUS-253 Big Band **Credits:1**
- MUS-260 Intro to Music Education **Credits:2**
- MUS-261 Applied Music III **Credits:2**
- MUS-262 Applied Music IV **Credits:2**
- MUS-265 Piano Pedagogy **Credits:1**
- MUS-271 Music History I **Credits:3**
- MUS-272 Music History II **Credits:3**
- MUS-273 Opera Production III **Credits:3**
- MUS-274 Opera Production IV **Credits:3**
- MUS-280 Music for the El Classrm **Credits:3**
- MUS-281 Show Choir III **Credits:4**
- MUS-282 Show Choir IV **Credits:4**
- MUS-283 Varied Cultures/Musical Perf **Credits:2**
- NDT-110 Neuroscience/Pathol Cond **Credits:4**
- NDT-111 Laboratory Management **Credits:1**
- NDT-112 Instrument/Record Methods **Credits:3**
- NDT-113 Clinical Correlates **Credits:3**
- NDT-114 Special Procedures **Credits:3**
- NDT-115 NDT Laboratory Practice **Credits:2**
- NDT-117 EEG Clinical Experience **Credits:4**
- NDT-118 NDT Laboratory Prac. II **Credits:3**
- NDT-218 NDT Clinical Experience **Credits:8**
- NDT-220 IONM and EP **Credits:7**
- NDT-221 Long Term Monitoring **Credits:7**
- NDT-222 Nerve Conduction Studies **Credits:7**
- NET-110 Networking Concepts **Credits:3**
- NET-125 Introduction to Networks **Credits:3**
- NET-126 Switching and Routing **Credits:3**
- NET-225 Enterprise Networking **Credits:3**
- NET-226 Network Programmability **Credits:3**
- NOS-110 Operating Systems Concepts **Credits:3**
- NUC-110 2012FA Nuclear Reactor Systems **Credits:3**
- NUC-120 2012FA Nuclear Reactor Theory **Credits:4**
- NUC-130 Applied NDE-Nuclear **Credits:2**
- NUR-112 Health-Illness Concepts **Credits:5**
- NUR-111 Intro to Health Concepts **Credits:8**
- NUR-113 Family Health Concepts **Credits:5**
- NUR-114 Holistic Health Concepts **Credits:5**
- NUR-211 Health Care Concepts **Credits:5**
- NUR-212 Health System Concepts **Credits:5**
- NUR-213 Complex Health Concepts **Credits:10**
- NUR-214 Nsg Transition Concepts **Credits:4**
- NUR-221 LPN to ADN Concepts I **Credits:9**
- NUR-223 LPN to ADN Concepts II **Credits:9**
- NUT-110 Nutrition **Credits:3**

- OMT-110 Intro to Operations Mgmt **Credits:3**
- OMT-112 Materials Management **Credits:3**
- OMT-132 ISO 9000 Standards **Credits:3**
- OMT-156 Problem-Solving Skills **Credits:3**
- OMT-260 Issues in Operations Mgt. **Credits:3**
- OST-149 Medical Legal Issues **Credits:3**
- OST-164 Office Editing **Credits:3**
- OST-148 Med Ins & Billing **Credits:3**
- OST-136 Word Processing **Credits:3**
- OST-247 Procedure Coding **Credits:3**
- OST-248 Diagnostic Coding **Credits:3**
- OST-249 Med Coding Certification Prep **Credits:3**
- OST-260 Adv Coding Methodologies **Credits:3**
- OST-264 Medical Auditing **Credits:3**
- OST-265 Healthcare Comp & Reg **Credits:3**
- OST-280 Electronic Health Records **Credits:3**
- OST-288 Medical Office Admin Capstone **Credits:3**
- OTA-110 Fundamentals of OT **Credits:3**
- OTA-120 OT Media I **Credits:2**
- OTA-130 Assessment Skills **Credits:3**
- OTA-140 Professional Skills I **Credits:1**
- OTA-150 Peds Concepts & Interventions **Credits:3**
- OTA-161 Fieldwork I-Placement 1 **Credits:1**
- OTA-162 Fieldwork I-Placement 2 **Credits:1**
- OTA-163 Fieldwork I-Placement 3 **Credits:1**
- OTA-170 Physical Conditions **Credits:3**
- OTA-180 Psychosocial Conditions **Credits:3**
- OTA-220 OT Media II **Credits:3**
- OTA-240 Professional Skills II **Credits:1**
- OTA-250 Adult Concepts & Interventions **Credits:3**
- OTA-260 Level II Fieldwork Placement 1 **Credits: 6**
- OTA-261 Level II Fieldwork Placement 2 **Credits: 6**
- PAD-151 Intro to Public Admin **Credits:3**
- PAD-152 Ethics in Government **Credits:3**
- PAD-251 Public Finance & Budgeting **Credits:3**
- PAD-252 Public Policy Analysis **Credits:3**
- PAD-254 Grant Writing **Credits:3**
- PED-110 Fit and Well for Life **Credits:2**
- PED-113 Aerobics I **Credits:1**
- PED-117 Weight Training I **Credits:1**
- PED-118 Weight Training II **Credits:1**
- PED-119 Circuit Training **Credits:1**
- PED-120 Walking for Fitness **Credits:1**
- PED-122 Yoga I **Credits:1**
- PED-123 Yoga II **Credits:1**
- PED-125 Self-Defense: Beginning **Credits:1**
- PED-128 Golf-Beginning **Credits:1**
- PED-129 Golf-Intermediate **Credits:1**
- PED-130 Tennis-Beginning **Credits:1**
- PED-131 Tennis-Intermediate **Credits:1**
- PED-143 Volleyball-Beginning **Credits:1**
- PED-145 Basketball-Beginning **Credits:1**
- PED-149 Flag Football **Credits:1**
- PED-165 Sport Science As a Career **Credits:3**
- PED-170 Backpacking **Credits:1**
- PED-172 Outdoor Living **Credits:2**
- PED-210 Team Sports **Credits:1**
- PED-211 New Games **Credits:1**
- PED-216 Indoor Cycling **Credits:1**

- PED-219 Disc Golf **Credits:1**
- PED-233 Ju-Jitsu **Credits:1**
- PED-235 Tai Chi **Credits:1**
- PED-252 Officiating/Bsball/Sfball **Credits:2**
- PED-254 Coaching Basketball **Credits:2**
- PED-256 Coaching Baseball **Credits:2**
- PED-259 Prev & Care Ath Injuries **Credits:2**
- PHI-210 History of Philosophy **Credits:3**
- PHI-215 Philosophical Issues **Credits:3**
- PHI-220 Western Philosophy I **Credits:3**
- PHI-230 Introduction to Logic **Credits:3**
- PHI-240 Introduction to Ethics **Credits:3**
- PHM-110 Introduction to Pharmacy **Credits:3**
- PHM-111 Pharmacy Practice I **Credits:4**
- PHM-115 Pharmacy Calculations **Credits:3**
- PHM-118 Sterile Products **Credits:4**
- PHM-120 Pharmacology I **Credits:3**
- PHM-125 Pharmacology II **Credits:3**
- PHM-133 Pharmacy Clinical **Credits:3**
- PHM-135 Pharmacy Clinical **Credits:5**
- PHM-136 Pharmacy Clinical **Credits: 6**
- PHM-140 Trends in Pharmacy **Credits:2**
- PHM-150 Hospital Pharmacy **Credits:4**
- PHM-155 Community Pharmacy **Credits:3**
- PHM-160 Pharm Dosage Forms **Credits:3**
- PHM-165 Pharmacy Prof Practice **Credits:2**
- PHM-265 Professional Issues **Credits:3**
- PHY-110 Conceptual Physics **Credits:3**
- PHY-131 Physics-Mechanics **Credits:4**
- PHY-132 Physics-Elec & Magnetism **Credits:4**
- PHY-151 College Physics I **Credits:4**
- PHY-152 College Physics II **Credits:4**
- PHY-251 General Physics I **Credits:4**
- PHY-252 General Physics II **Credits:4**
- PLU-110 Modern Plumbing **Credits:9**
- PLU-120 Plumbing Applications **Credits:9**
- PLU-124 Plumbing Business Operations **Credits:2**
- PLU-130 Plumbing Systems **Credits:6**
- PLU-140 Intro to Plumbing Codes **Credits:2**
- PLU-150 Plumbing Diagrams **Credits:2**
- PLU-160 Plumbing Estimates **Credits:2**
- PMT-110 Intro to Project Mgmt **Credits:3**
- POL-110 Intro Political Science **Credits:3**
- POL-120 American Government **Credits:3**
- POL-130 State & Local Government **Credits:3**
- POL-210 Comparative Government **Credits:3**
- POL-220 International Relations **Credits:3**
- POL-250 Intro to Political Theory **Credits:3**
- PST-120 NCDPS Correct'l Officer Train **Credits:8**
- PST-123 NC Sheriffs' Telecom Training **Credits:2**
- PST-124 Nc Sheriffs' Detent Ofr Train **Credits:8**
- PST-125 NC Basic Juv Just Ofr Train **Credits:7**
- PST-126 NC Basic Juv Just Counsel Trg **Credits:7**
- PST-127 NC Basic Probation Ofr Traing **Credits:9**
- PST-151 NC Justice Academy Training **Credits:1**
- PST-152 NC Justice Academy Training **Credits:2**
- PST-153 NC Justice Academy Training **Credits:3**
- PST-154 NC Justice Academy Training **Credits:4**

- PST-155 NC Justice Academy Training **Credits:5**
- PST-156 NC Justice Academy Training **Credits:6**
- PST-157 NC Justice Academy Training **Credits:7**
- PST-158 NC Justice Academy Training **Credits:8**
- PST-159 NC Justice Academy Training **Credits:9**
- PST-161 NC OSFM Training **Credits:1**
- PST-162 NC OSFM Training **Credits:2**
- PST-163 NC OSFM Training **Credits:3**
- PST-164 NC OSFM Training **Credits:4**
- PST-165 NC OSFM Training **Credits:5**
- PST-166 NC OSFM Training **Credits:6**
- PST-167 NC OSFM Training **Credits:7**
- PST-168 NC OSFM Training **Credits:8**
- PST-169 NC OSFM Training **Credits:9**
- PST-171 NCCCS Public Safety Training **Credits:1**
- PST-172 NCCCS Public Safety Training **Credits:2**
- PST-173 NCCCS Public Safety Training **Credits:3**
- PST-174 NCCCS Public Safety Training **Credits:4**
- PST-175 NCCCS Public Safety Training **Credits:5**
- PST-176 NCCCS Public Safety Training **Credits:6**
- PST-177 NCCCS Public Safety Training **Credits:7**
- PST-178 NCCCS Public Safety Training **Credits:8**
- PST-179 NCCCS Public Safety Training **Credits:9**
- PST-181 NCDPS Unarmed Sec Guard Trg **Credits:1**
- PST-182 NCDPS Armed Sec Ofc Inst Trg **Credits:2**
- PST-189 NCDOJ Prof Cert Program **Credits:9**
- PSY-118 Interpersonal Psychology **Credits:3**
- PSY-150 General Psychology **Credits:3**
- PSY-211 Psychology of Adjustment **Credits:3**
- PSY-215 Positive Psychology **Credits:3**
- PSY-231 Forensic Psychology **Credits:3**
- PSY-237 Social Psychology **Credits:3**
- PSY-239 Psychology of Personality **Credits:3**
- PSY-241 Developmental Psych **Credits:3**
- PSY-243 Child Psychology **Credits:3**
- PSY-246 Adolescent Psychology **Credits:3**
- PSY-249 Psychology of Aging **Credits:3**
- PSY-259 Human Sexuality **Credits:3**
- PSY-263 Educational Psychology **Credits:3**
- PSY-271 Sports Psychology **Credits:3**
- PSY-275 Health Psychology **Credits:3**
- PSY-281 Abnormal Psychology **Credits:3**
- PSY-265 Behavioral Modification **Credits:3**
- PTE-110 Pathway to Employ-Construction **Credits: 3**
- PTE-112 Pathway to Employ-Public Safe **Credits: 3**
- RAD-110 Rad Intro & Patient Care **Credits: 3**
- RAD-111 RAD Procedures I **Credits:4**
- RAD-112 RAD Procedures II **Credits:4**
- RAD-113 RAD Lab Elective **Credits:1**
- RAD-121 Image Production I **Credits: 3**
- RAD-122 Image Production II **Credits:2**
- RAD-141 Radiation Safety **Credits:2**
- RAD-151 RAD Clinical Ed I **Credits:2**

- RAD-161 RAD Clinical Ed II **Credits:5**
- RAD-171 RAD Clinical Ed III **Credits:3**
- RAD-182 RAD Clinical Elective **Credits:2**
- RAD-211 RAD Procedures III **Credits: 3**
- RAD-231 Image Production III **Credits:2**
- RAD-251 RAD Clinical Ed IV **Credits:7**
- RAD-261 RAD Clinical Ed V **Credits:7**
- RAD-271 Radiography Capstone **Credits: 3**
- RAD-281 RAD Clinical Elective **Credits:1**
- REL-110 World Religions **Credits:3**
- REL-111 Eastern Religions **Credits:3**
- REL-112 Western Religions **Credits:3**
- REL-211 Intro to Old Testament **Credits:3**
- REL-212 Intro to New Testament **Credits:3**
- REL-221 Religion in America **Credits:3**
- SAB-110 Intro to Addiction & Recover **Credits:3**
- SAB-120 Intake and Assessment **Credits:3**
- SAB-135 Addictive Process **Credits:3**
- SAB-137 Co-Dependency **Credits:3**
- SAB-210 Addiction and Recovery Counsel **Credits:3**
- SAB-240 Diversity, Ethics, & Trends **Credits:3**
- SEC-175 Perimeter Defense **Credits:3**
- SEC-110 Security Concepts **Credits: 3**
- SEC-160 Security Administration I **Credits:3**
- SGD-111 Introduction to SGD **Credits: 3**
- SGD-112 SGD Design I **Credits: 3**
- SGD-113 SGD Programming I **Credits: 3**
- SGD-114 SGD 3D Modeling I **Credits: 3**
- SGD-116 SGD Graphic Design Tools **Credits: 3**
- SGD-117 Art for Games **Credits: 3**
- SGD-126 SG Engine Design **Credits: 3**
- SGD-134 SGD Quality Assurance **Credits: 3**
- SGD-135 Serious Games **Credits:3**
- SGD-158 SGD Business Management **Credits:3**
- SGD-159 SGD Production Management **Credits:3**
- SGD-162 SGD 3D Animation I **Credits: 3**
- SGD-163 SGD Documentation **Credits: 3**
- SGD-164 SGD Audio/Video **Credits: 3**
- SGD-167 SGD Ethics **Credits:3**
- SGD-168 SGD Mobile Programming I **Credits: 3**
- SGD-174 SGD Level Design I **Credits: 3**
- SGD-212 SGD Design II **Credits: 3**
- SGD-213 SGD Programming II **Credits: 3**
- SGD-214 SGD 3D Modeling II **Credits: 3**
- SGD-262 SGD 3D Animation II **Credits: 3**
- SGD-268 SGD Mobile Programming II **Credits: 3**
- SGD-274 SGD Level Design II **Credits: 3**
- SGD-285 SGD Software Engineering **Credits: 3**
- SGD-288 SGD Portfolio Design **Credits:2**
- SGD-289 SGD Project **Credits: 3**
- SOC-210 Introduction to Sociology **Credits:3**
- SOC-213 Sociology of the Family **Credits:3**
- SOC-215 Group Processes **Credits:3**
- SOC-220 Social Problems **Credits:3**
- SOC-225 Social Diversity **Credits:3**
- SOC-230 Race and Ethnic Relations **Credits:3**
- SOC-232 Social Context of Aging **Credits:3**
- SOC-234 Sociology of Gender **Credits:3**
- SOC-240 Social Psychology **Credits:3**
- SOC-242 Sociology of Deviance **Credits:3**



- SOC-244 Soc of Death & Dying **Credits:3**
- SOC-245 Drugs and Society **Credits:3**
- SOC-250 Sociology of Religion **Credits:3**
- SOC-254 Rural and Urban Sociology **Credits:3**
- SON-110 Intro to Sonography **Credits:3**
- SON-120 SON Clinical Ed I **Credits:5**
- SON-121 SON Clinical Ed II **Credits:5**
- SON-130 Abdominal Sonography I **Credits: 3**
- SON-131 Abdominal Sonography II **Credits:2**
- SON-140 Gynecological Sonography **Credits:2**
- SON-111 Sonographic Physics **Credits:4**
- SON-220 SON Clinical Ed III **Credits:8**
- SON-221 SON Clinical Ed IV **Credits:8**
- SON-225 Case Studies **Credits:1**
- SON-241 Obstetrical Sonography I **Credits:2**
- SON-242 Obstetrical Sonography II **Credits:2**
- SON-272 Advanced Pathology **Credits:1**
- SON-289 Sonographic Topics **Credits:2**
- SON-250 Vascular Sonography **Credits:2**
- SPA-120 Spanish for the Workplace **Credits:3**
- SPA-181 Spanish Lab 1 **Credits:1**
- SPA-182 Spanish Lab 2 **Credits:1**
- SPA-112 Elementary Spanish II (2ND) **Credits:3**
- SPA-111 Elementary Spanish I (2ND) **Credits:3**
- SPA-141 Culture and Civilization **Credits:3**
- SPA-161 Cultural Immersion **Credits: 3**
- SPA-281 Spanish Lab 3 **Credits:1**
- SPA-282 Spanish Lab 4 **Credits:1**
- SPA-211 Intermediate Spanish I **Credits:3**
- SPA-212 Intermediate Spanish II **Credits:3**
- SPA-215 Spanish Phonetics/Structu **Credits:3**
- SPA-221 Spanish Conversation **Credits:3**
- SPA-231 Reading and Composition **Credits:3**
- SPI-113 Intro. to Spanish Inter. **Credits:3**
- SPI-114 Ana.Skills Spanish Inter. **Credits:3**
- SPI-213 Review of Grammar **Credits:3**
- SPI-214 Intro. to Translation **Credits:3**
- SPI-221 Consecutive Interp I **Credits:3**
- SPI-241 Legal Interpreting I **Credits: 3**
- SPI-243 Medical Interpreting I **Credits: 3**
- SPI-245 Community Interpreting I **Credits: 3**
- SRV-110 Surveying I **Credits:4**
- SRV-111 Surveying II **Credits:4**
- SRV-210 Surveying III **Credits:4**
- SRV-220 Surveying Law **Credits:3**
- SRV-240 Topo/Site Surveying **Credits:4**
- SRV-250 Advanced Surveying **Credits:4**
- SRV-260 Field & Office Practices **Credits:2**
- SST-140 Green Bldg & Design Concepts **Credits:3**
- SST-110 Intro to Sustainability **Credits:3**
- SST-120 Energy Use Analysis **Credits:3**
- SST-130 Modeling Renewable Energy **Credits:3**
- SST-210 Issues in Sustainability **Credits:3**
- SST-250 Sustain Capstone Project **Credits:3**
- SUR-110 Intro to Surg Tech **Credits:3**
- SUR-111 Periop Patient Care **Credits:7**
- SUR-122 Surgical Procedures I **Credits:6**
- SUR-123 Sur Clinical Practice I **Credits:7**
- SUR-134 Surgical Procedures II **Credits:5**
- SUR-135 SUR Clinical Practice II **Credits:4**
- SUR-137 Professional Success Prep **Credits:1**
- SUR-210 Adv SUR Clinical Practice **Credits:2**



- SUR-211 Adv Theoretical Concepts **Credits:2**
- SWK-110 Intro to Social Work **Credits:3**
- SWK-113 Cultural Comp & Diversity **Credits:3**
- TDP-110 Introduction to 3D Printing **Credits:3**
- TDP-140 Precision 3D Printing **Credits:3**
- TNE-245 Netwk Perimeter Security **Credits:3**
- TNE-255 Network Servers **Credits:3**
- TRF-110 Intro Turfgrass Cult & ID **Credits:4**
- TRN-130 Intro to Sustainable Transp **Credits:3**
- TRN-140 Transp Climate Control **Credits:2**
- TRN-180 Basic Welding for Transp **Credits:3**
- TRN-110 Intro to Transport Tech **Credits:2**
- TRN-120 Basic Transp Electricity **Credits:5**
- TRN-145 Adv Transp Electronics **Credits:3**
- UAS-110 Intro to UAS Operations **Credits:3**
- UAS-111 Unmanned Aircraft Systems **Credits:3**
- UAS-115 Small UAS Certification **Credits:2**
- VET-110 Animal Breeds and Husbandry **Credits:3**
- VET-120 Vet Anatomy & Physiology **Credits:4**
- VET-121 Veterinary Medical Terminology **Credits:3**
- VET-122 Veterinary Zoology **Credits:4**
- VET-123 Veterinary Parasitology **Credits:3**
- VET-125 Veterinary Diseases I **Credits:2**
- VET-126 Veterinary Diseases II **Credits:2**
- VET-131 Vet Lab Techniques I **Credits:3**
- VET-133 Vet Clinical Practice I **Credits:3**
- VET-137 Vet Office Practices **Credits:2**
- VET-211 Vet Lab Techniques II **Credits:3**
- VET-212 Vet Lab Techniques III **Credits:3**
- VET-213 Vet Clinical Practice II **Credits:4**
- VET-214 Vet Clinical Practice III **Credits:4**
- VET-215 Veterinary Pharmacology **Credits:3**
- VET-217 Large Animal Clin Pract **Credits:3**
- VET-237 Animal Nutrition **Credits:3**
- WEB-111 Intro to Web Graphics **Credits:3**
- WEB-151 Mobile Application Dev I **Credits:3**
- WEB-115 Web Markup and Scripting **Credits:3**
- WEB-210 Web Design **Credits:3**
- WEB-213 Internet Mkt & Analytics **Credits:3**
- WLD-110 Cutting Processes **Credits:2**
- WLD-112 Basic Welding Processes **Credits:2**
- WLD-115 SMAW (Stick) Plate **Credits:5**
- WLD-116 SMAW (stick) Plate/Pipe **Credits:4**
- WLD-121 GMAW (MIG) FCAW/Plate **Credits:4**
- WLD-131 GTAW (TIG) Plate **Credits:4**
- WLD-132 GTAW (TIG) Plate/Pipe **Credits:3**
- WLD-141 Symbols & Specifications **Credits:3**
- WLD-143 Welding Metallurgy **Credits:2**
- WLD-215 SMAW (stick) Pipe **Credits:4**
- WLD-231 GTAW (TIG) Pipe **Credits:3**

**Total Credits: 64/65**

# A10400 - Associate in Science

## Overview

### Department Title      Program Code

Associate in Science      A10400

### Program 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.

### Degree

Associate in Science

## Program of Study

### Program Requirements

#### Universal General Education Transfer Component (Credits: 45)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

**Communications/Humanities/Fine Arts Elective** (Take 6 credits, *Minimum 2 subjects*)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Social/Behavioral Sciences Elective** (Take 6 credits, *Minimum 2 subjects*)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Mathematics Elective** (Take 8 credits)

- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 175 - Precalculus **Credits: 5**
- MAT 263 - Brief Calculus **Credits: 4**

- MAT 271 - Calculus I **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**

**Natural Sciences Elective** (Choose one group; take 8 credits)

Group I

- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**

Group II

- AST 152 - General Astronomy II **Credits: 3 and**
- AST 152A - General Astronomy II Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**

Group III

- AST 152 - General Astronomy II **Credits: 3 and**
- AST 152A - General Astronomy II Lab **Credits: 1**
- GEL 111 - Geology **Credits: 4**

Group IV

- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- GEL 111 - Geology **Credits: 4**

Group V

- BIO 110 - Principles of Biology **Credits: 4**
- GEL 111 - Geology **Credits: 4**

Group VI

- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**

Group VII

- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**

Group VIII

- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**

Group IX

- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**

**Additional General Education Courses (Credits: 11)**

- ANT 210 - General Anthropology **Credits: 3**
- ANT 220 - Cultural Anthropology **Credits: 3**
- ANT 240 - Archaeology **Credits: 3**
- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- ASL 111 - Elementary ASL I **Credits: 3**
- ASL 112 - Elementary ASL II **Credits: 3**
- ASL 211 - Intermediate ASL I **Credits: 3**
- ASL 212 - Intermediate ASL II **Credits: 3**
- AST 111 - Descriptive Astronomy **Credits: 3 and**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- AST 152 - General Astronomy II **Credits: 3 and**
- AST 152A - General Astronomy II Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**
- BIO 120 - Introductory Botany **Credits: 4**

- BIO 130 - Introductory Zoology **Credits: 4**
- BIO 140 - Environmental Biology **Credits: 3**  
*and*
- BIO 140A - Environmental Biology Lab **Credits: 1**
- CHM 131 - Introduction to Chemistry **Credits: 3**  
*and*
- CHM 131A - Intro to Chemistry Lab **Credits: 1**
- CHM 132 - Organic and Biochemistry **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**
- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 140 - Intro Intercultural Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 233 - Major American Writers **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 261 - World Literature I **Credits: 3**
- ENG 262 - World Literature II **Credits: 3**
- FRE 111 - Elementary French I **Credits: 3**
- FRE 112 - Elementary French II **Credits: 3**
- FRE 211 - Intermediate French I **Credits: 3**
- FRE 212 - Intermediate French II **Credits: 3**
- GEL 111 - Geology **Credits: 4**
- GEL 113 - Historical Geology **Credits: 4**
- GEL 230 - Environmental Geology **Credits: 4**
- GER 111 - Elementary German I **Credits: 3**
- GER 112 - Elementary German II **Credits: 3**
- GER 211 - Intermediate German I **Credits: 3**
- GER 212 - Intermediate German II **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 121 - Western Civilization I **Credits: 3**
- HIS 122 - Western Civilization II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- HUM 122 - Southern Culture **Credits: 3**
- MAT 141 - Mathematical Concepts I **Credits: 3**
- MAT 142 - Mathematical Concepts II **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**
- MAT 273 - Calculus III **Credits: 4**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- PHI 210 - History of Philosophy **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 220 - Western Philosophy I **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**

- PHI 240 - Introduction to Ethics **Credits: 3**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**
- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**
- POL 110 - Intro Political Science **Credits: 3**
- POL 120 - American Government **Credits: 3**
- POL 210 - Comparative Government **Credits: 3**
- POL 220 - International Relations **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**
- REL 110 - World Religions **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**
- REL 211 - Intro to Old Testament **Credits: 3**
- REL 212 - Intro to New Testament **Credits: 3**
- REL 221 - Religion in America **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 213 - Sociology of the Family **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**
- SOC 225 - Social Diversity **Credits: 3**
- SOC 230 - Race and Ethnic Relations **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**
- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 211 - Intermediate Spanish I **Credits: 3**
- SPA 212 - Intermediate Spanish II **Credits: 3**

## Other Required Electives (Credits:15)

*Reminder: ACA 122 is a required course, and students should take it during their first or second semester of enrollment at CFCC. The selection of the additional unused courses should be based on the student's intended major and respective senior institution. AST 111, BIO 140, CHM 131, PHY 110, all elementary foreign languages, and ASL 211 have mandatory labs.*

### Required course (Take 1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

### Electives (Take 14 credits)

#### Accounting

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- ACC 121 - Prin of Managerial Accounting **Credits: 4**

#### Anthropology

- ANT 210 - General Anthropology **Credits: 3**
- ANT 220 - Cultural Anthropology **Credits: 3**
- ANT 240 - Archaeology **Credits: 3 and**
- ANT 240A - Archaeology Field Lab **Credits: 2**

#### Art

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- ART 118 - Art by Women **Credits: 3**
- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 122 - Three-Dimensional Design **Credits: 3**
- ART 131 - Drawing I **Credits: 3**
- ART 132 - Drawing II **Credits: 3**
- ART 135 - Figure Drawing I **Credits: 3**
- ART 140 - Basic Painting **Credits: 2**

- ART 170 - The Business of Art **Credits: 3**
- ART 171 - Digital Design I **Credits: 3**
- ART 212 - Gallery Assistantship I **Credits: 3**
- ART 213 - Gallery Assistantship II **Credits: 3**
- ART 214 - Portfolio and Resume **Credits: 1**
- ART 215 - Visual Art Portfolio **Credits: 3**
- ART 231 - Printmaking I **Credits: 3**
- ART 232 - Printmaking II **Credits: 3**
- ART 240 - Painting I **Credits: 3**
- ART 241 - Painting II **Credits: 3**
- ART 245 - Metals I **Credits: 3**
- ART 246 - Metals II **Credits: 3**
- ART 247 - Jewelry I **Credits: 3**
- ART 248 - Jewelry II **Credits: 3**
- ART 261 - Photography I **Credits: 3**
- ART 262 - Photography II **Credits: 3**
- ART 264 - Digital Photography I **Credits: 3**
- ART 265 - Digital Photography II **Credits: 3**
- ART 281 - Sculpture I **Credits: 3**
- ART 282 - Sculpture II **Credits: 3**
- ART 283 - Ceramics I **Credits: 3**
- ART 284 - Ceramics II **Credits: 3**
- ART 285 - Ceramics III **Credits: 3**
- ART 286 - Ceramics IV **Credits: 3**
- ART 288 - Studio **Credits: 3**

#### American Sign Language

- ASL 111 - Elementary ASL I **Credits: 3**
- ASL 112 - Elementary ASL II **Credits: 3**
- ASL 211 - Intermediate ASL I **Credits: 3**
- ASL 212 - Intermediate ASL II **Credits: 3**

#### Astronomy

- AST 111 - Descriptive Astronomy **Credits: 3 and**

- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- AST 152 - General Astronomy II **Credits: 3 and**
- AST 152A - General Astronomy II Lab **Credits: 1**

#### Biology

- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**
- BIO 120 - Introductory Botany **Credits: 4**
- BIO 130 - Introductory Zoology **Credits: 4**
- BIO 140 - Environmental Biology **Credits: 3 and**
- BIO 140A - Environmental Biology Lab **Credits: 1**
- BIO 146 - Regional Natural History **Credits: 4**
- BIO 155 - Nutrition **Credits: 3**
- BIO 163 - Basic Anat & Physiology **Credits: 5**
- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**
- BIO 175 - General Microbiology **Credits: 3**
- BIO 250 - Genetics **Credits: 4**
- BIO 275 - Microbiology **Credits: 4**

#### Business

- BUS 110 - Introduction to Business **Credits: 3**
- BUS 115 - Business Law I **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**



## Chemistry

- CHM 130 - Gen, Org, & Biochemistry **Credits: 3 and**
- CHM 130A - Gen, Org, & Biochem Lab **Credits: 1**
- CHM 131 - Introduction to Chemistry **Credits: 3 and**
- CHM 131A - Intro to Chemistry Lab **Credits: 1**
- CHM 132 - Organic and Biochemistry **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**
- CHM 251 - Organic Chemistry I **Credits: 4**
- CHM 252 - Organic Chemistry II **Credits: 4**

## Information Systems

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**

## Criminal Justice

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 121 - Law Enforcement Operations **Credits: 3**
- CJC 141 - Corrections **Credits: 3**
- CJC 212 - Ethics & Comm Relations **Credits: 3**

## Communication

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

## Computer Science

- CSC 151 - JAVA Programming **Credits: 3**
- CSC 249 - Data Structure & Algorithms **Credits: 3**

- CSC 251 - Advanced JAVA Programming **Credits: 3**

## Computer Info Tech

- CTS 115 - Info Sys Business Concepts **Credits: 3**

## Drafting

- DFT 170 - Engineering Graphics **Credits: 3**

## Drama/Theatre

- DRA 111 - Theatre Appreciation **Credits: 3**
- DRA 118 - Script Analysis **Credits: 3**
- DRA 130 - Acting I **Credits: 3**
- DRA 131 - Acting II **Credits: 3**
- DRA 144 - Introduction to Stage Design **Credits: 3**
- DRA 170 - Play Production I **Credits: 3**

## Economics

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**

## Education

- EDU 144 - Child Development I **Credits: 3**
- EDU 145 - Child Development II **Credits: 3**
- EDU 216 - Foundations of Education **Credits: 3**
- EDU 221 - Children With Exceptionalities **Credits: 3**

## Engineering

- EGR 120 - Eng and Design Graphics **Credits: 3**
- EGR 150 - Intro to Engineering **Credits: 2**
- EGR 210 - Intro to Elec/Comp Eng Lab **Credits: 2**
- EGR 212 - Logic System Design I **Credits: 3**



- EGR 214 - Num Methods for Engineers **Credits: 3**
- EGR 215 - Network Theory I **Credits: 3**
- EGR 216 - Logic and Network Lab **Credits: 1**
- EGR 220 - Engineering Statics **Credits: 3**
- EGR 225 - Engineering Dynamics **Credits: 3**
- EGR 228 - Intro to Solid Mechanics **Credits: 3**

### English

- ENG 114 - Prof Research & Reporting **Credits: 3**
- ENG 125 - Creative Writing I **Credits: 3**
- ENG 126 - Creative Writing II **Credits: 3**
- ENG 127 - Fiction Writing **Credits: 3**
- ENG 128 - Poetry Writing **Credits: 3**
- ENG 129 - Creative Nonfiction Writing **Credits: 3**
- ENG 131 - Introduction to Literature **Credits: 3**
- ENG 132 - Introduction to Drama **Credits: 3**
- ENG 134 - Introduction to Poetry **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 233 - Major American Writers **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 272 - Southern Literature **Credits: 3**
- ENG 273 - African-American Literature **Credits: 3**
- ENG 274 - Literature by Women **Credits: 3**

### French

- FRE 111 - Elementary French I **Credits: 3**
- FRE 112 - Elementary French II **Credits: 3**
- FRE 211 - Intermediate French I **Credits: 3**
- FRE 212 - Intermediate French II **Credits: 3**

### Geology

- GEL 111 - Geology **Credits: 4**
- GEL 113 - Historical Geology **Credits: 4**
- GEL 230 - Environmental Geology **Credits: 4**

### German

- GER 111 - Elementary German I **Credits: 3**
- GER 112 - Elementary German II **Credits: 3**
- GER 211 - Intermediate German I **Credits: 3**
- GER 212 - Intermediate German II **Credits: 3**

### Health

- HEA 110 - Personal Health/Wellness **Credits: 3**
- HEA 112 - First Aid & CPR **Credits: 2**
- HEA 120 - Community Health **Credits: 3**

### History:

- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 115 - Intro to Global History **Credits: 3**
- HIS 116 - Current World Problems **Credits: 3**
- HIS 121 - Western Civilization I **Credits: 3**
- HIS 122 - Western Civilization II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- HIS 141 - Genealogy & Local History **Credits: 3**
- HIS 162 - Women and History **Credits: 3**
- HIS 221 - African-American History **Credits: 3**
- HIS 222 - African-American Hist I **Credits: 3**
- HIS 223 - African-American Hist II **Credits: 3**
- HIS 227 - Native American History **Credits: 3**

### Humanities

- HUM 115 - Critical Thinking **Credits: 3**
- HUM 122 - Southern Culture **Credits: 3**

- HUM 150 - American Women's Studies **Credits: 3**
- HUM 160 - Introduction to Film **Credits: 3**
- HUM 161 - Advanced Film Studies **Credits: 3**
- HUM 220 - Human Values and Meaning **Credits: 3**
- HUM 230 - Leadership Development **Credits: 3**

#### Human Services

- HSE 110 - Intro to Human Services **Credits: 3**

#### Mathematics

- MAT 141 - Mathematical Concepts I **Credits: 3**
- MAT 142 - Mathematical Concepts II **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 175 - Precalculus **Credits: 5**
- MAT 263 - Brief Calculus **Credits: 4**
- MAT 271 - Calculus I **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**
- MAT 273 - Calculus III **Credits: 4**
- MAT 280 - Linear Algebra **Credits: 3**
- MAT 285 - Differential Equations **Credits: 3**

#### Music

- MUS 110 - Music Appreciation **Credits: 3**
- MUS 111 - Fundamentals of Music **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- MUS 131 - Chorus I **Credits: 1**
- MUS 132 - Chorus II **Credits: 1**
- MUS 161 - Applied Music I **Credits: 2**

- MUS 162 - Applied Music II **Credits: 2**

#### Physical Education

- PED 110 - Fit and Well for Life **Credits: 2**
- PED 165 - Sport Science As a Career **Credits: 3**
- PED 172 - Outdoor Living **Credits: 2**
- PED 252 - Officiating/Bsball/Sfball **Credits: 2**
- PED 254 - Coaching Basketball **Credits: 2**
- PED 256 - Coaching Baseball **Credits: 2**
- PED 259 - Prev & Care Ath Injuries **Credits: 2**

#### Philosophy

- PHI 210 - History of Philosophy **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 220 - Western Philosophy I **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Physics

- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**
- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**

#### Political Science

- POL 110 - Intro Political Science **Credits: 3**
- POL 120 - American Government **Credits: 3**
- POL 210 - Comparative Government **Credits: 3**
- POL 220 - International Relations **Credits: 3**
- POL 250 - Intro to Political Theory **Credits: 3**

#### Psychology

- PSY 150 - General Psychology **Credits: 3**

- PSY 241 - Developmental Psych **Credits: 3**
- PSY 243 - Child Psychology **Credits: 3**
- PSY 259 - Human Sexuality **Credits: 3**
- PSY 263 - Educational Psychology **Credits: 3**
- PSY 271 - Sports Psychology **Credits: 3**
- PSY 275 - Health Psychology **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**

#### Religion

- REL 110 - World Religions **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**
- REL 211 - Intro to Old Testament **Credits: 3**
- REL 212 - Intro to New Testament **Credits: 3**
- REL 221 - Religion in America **Credits: 3**

#### Sociology

- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 213 - Sociology of the Family **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**
- SOC 230 - Race and Ethnic Relations **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**

#### Spanish

- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 141 - Culture and Civilization **Credits: 3**
- SPA 211 - Intermediate Spanish I **Credits: 3**
- SPA 212 - Intermediate Spanish II **Credits: 3**

**Total Requirement in Semester Hours:  
60-61**

## A1040T - Associate in Science in Teacher Preparation

### Overview

| Department Title | Program Code |
|------------------|--------------|
| Education        | A1040T       |

### Program 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.

### Degree

Associate in Science

### Program of Study

#### Program Requirements

#### UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT(Credits: 45)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

- ENG 112 - Writing/Research in the Disc **Credits: 3**

### **Communications/ Humanities/Fine Arts Electives**

(Take 6 credits; *Minimum 2 subjects*)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

### **Social /Behavioral Sciences Electives (Take 3 credits)**

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### **Math Electives (Take 8 credits)**

- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 263 - Brief Calculus **Credits: 4**

- MAT 271 - Calculus I **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**

### **Natural Sciences Electives (Take 1 Group - 8 credits)**

#### Group I

- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**

#### Group II

- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**

#### Group III

- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**

#### Group IV

- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**

#### Group V

- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- GEL 111 - Geology **Credits: 4**

#### Group VI

- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

#### Group VII

- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**

Group VIII

- BIO 110 - Principles of Biology **Credits: 4**
- GEL 111 - Geology **Credits: 4**

Group IX

- BIO 110 - Principles of Biology **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

Group X

- GEL 111 - Geology **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

## **ADDITIONAL GENERAL EDUCATION HOURS (Credits: 14-15)**

### **Other Required General Education (Take 3 credits)**

- SOC 225 - Social Diversity **Credits: 3**

### **Other Required Hours (Take 11 credits)**

- ANT 210 - General Anthropology **Credits: 3**
- ANT 220 - Cultural Anthropology **Credits: 3**
- ANT 221 - Comparative Cultures **Credits: 3**
- ANT 230 - Physical Anthropology **Credits: 3 and**
- ANT 230A - Physical Anthropology Lab **Credits: 1**
- ANT 240 - Archaeology **Credits: 3**
- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- ASL 111 - Elementary ASL I **Credits: 3**
- ASL 112 - Elementary ASL II **Credits: 3**
- ASL 211 - Intermediate ASL I **Credits: 3**
- ASL 212 - Intermediate ASL II **Credits: 3**

- AST 111 - Descriptive Astronomy **Credits: 3 and**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- AST 151 - General Astronomy I **Credits: 3 and**
- AST 151A - General Astronomy I Lab **Credits: 1**
- AST 152 - General Astronomy II **Credits: 3 and**
- AST 152A - General Astronomy II Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**
- BIO 120 - Introductory Botany **Credits: 4**
- BIO 130 - Introductory Zoology **Credits: 4**
- BIO 140 - Environmental Biology **Credits: 3 and**
- BIO 140A - Environmental Biology Lab **Credits: 1**
- CHM 131 - Introduction to Chemistry **Credits: 3 and**
- CHM 131A - Intro to Chemistry Lab **Credits: 1**
- CHM 132 - Organic and Biochemistry **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**
- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 140 - Intro Intercultural Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- DRA 112 - Literature of the Theatre **Credits: 3**

- DRA 115 - Theatre Criticism **Credits: 3**
- DRA 122 - Oral Interpretation **Credits: 3**
- DRA 126 - Storytelling **Credits: 3**
- DRA 211 - Theatre History I **Credits: 3**
- DRA 212 - Theatre History II **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- ENG 113 - Literature-Based Research **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- ENG 131 - Introduction to Literature **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 233 - Major American Writers **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 243 - Major British Writers **Credits: 3**
- ENG 251 - Western World Literature I **Credits: 3**
- ENG 252 - Western World Literature II **Credits: 3**
- ENG 261 - World Literature I **Credits: 3**
- ENG 262 - World Literature II **Credits: 3**
- FRE 111 - Elementary French I **Credits: 3**
- FRE 112 - Elementary French II **Credits: 3**
- FRE 211 - Intermediate French I **Credits: 3**
- FRE 212 - Intermediate French II **Credits: 3**
- GEL 111 - Geology **Credits: 4**
- GEL 113 - Historical Geology **Credits: 4**
- GEL 120 - Physical Geology **Credits: 4**
- GEL 230 - Environmental Geology **Credits: 4**
- GER 111 - Elementary German I **Credits: 3**
- GER 112 - Elementary German II **Credits: 3**
- GER 211 - Intermediate German I **Credits: 3**
- GER 212 - Intermediate German II **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 115 - Intro to Global History **Credits: 3**
- HIS 121 - Western Civilization I **Credits: 3**
- HIS 122 - Western Civilization II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- HUM 110 - Technology and Society **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- HUM 120 - Cultural Studies **Credits: 3**
- HUM 121 - The Nature of America **Credits: 3**
- HUM 122 - Southern Culture **Credits: 3**
- MAT 141 - Mathematical Concepts I **Credits: 3**
- MAT 142 - Mathematical Concepts II **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**
- MAT 273 - Calculus III **Credits: 4**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- MUS 114 - Introduction to World Music **Credits: 3**
- MUS 210 - History of Rock Music **Credits: 3**
- MUS 211 - History of Country Music **Credits: 3**



- MUS 212 - American Musical Theatre **Credits: 3**
- MUS 213 - Opera and Musical Theatre **Credits: 3**
- PHI 210 - History of Philosophy **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 220 - Western Philosophy I **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**
- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**
- POL 110 - Intro Political Science **Credits: 3**
- POL 120 - American Government **Credits: 3**
- POL 210 - Comparative Government **Credits: 3**
- POL 220 - International Relations **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- PSY 237 - Social Psychology **Credits: 3**
- PSY 239 - Psychology of Personality **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**
- REL 110 - World Religions **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**
- REL 211 - Intro to Old Testament **Credits: 3**
- REL 212 - Intro to New Testament **Credits: 3**
- REL 221 - Religion in America **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 213 - Sociology of the Family **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**

- SOC 230 - Race and Ethnic Relations **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**
- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 211 - Intermediate Spanish I **Credits: 3**
- SPA 212 - Intermediate Spanish II **Credits: 3**

## **OTHER REQUIRED HOURS (Credits: 15)**

### **Academic Transition (Take 1 credit)**

- ACA 122 - College Transfer Success **Credits: 1**

### **Education (Take 14 credits)**

- EDU 187 - Teaching and Learning for All **Credits: 4**
- EDU 216 - Foundations of Education **Credits: 3**
- EDU 250 - Teacher Licensure Preparation **Credits: 3**
- EDU 279 - Literacy Develop and Instruct **Credits: 4**

## **Total Semester Hours Credit: 60-61**

**Optional General Education Hours:** A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.



# A10500 - Associate in Engineering

## Overview

### Department Title      Program Code

Associate in Engineering      A10500

### Program 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.

## Degree

Associate in Engineering

## Program of Study

### Program Requirements

#### General Education Requirements (Credits: 45)

##### English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

##### Humanities/Fine Arts Electives (Take 2 groups. Take 6 credits)

##### Group I

- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**
- REL 110 - World Religions **Credits: 3**

##### Group II

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**

##### Social/Behavioral Sciences Electives (Take 2 Groups - Take 6 credits)

### Group I

- ECO 251 - Prin of Microeconomics **Credits: 3**

### Group II

- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### Mathematics Electives (Take 12 credits)

- MAT 271 - Calculus I **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**
- MAT 273 - Calculus III **Credits: 4**

### Natural Sciences Electives (Take 12 credits)

- CHM 151 - General Chemistry I **Credits: 4**
- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**

### Other General Education Electives (Take 3 credits)

- BIO 111 - General Biology I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- GEL 111 - Geology **Credits: 4**

### Other Required Hours (Credits: 15)

#### Required Courses (Take 3 credits)

- ACA 122 - College Transfer Success **Credits: 1**
- EGR 150 - Intro to Engineering **Credits: 2**

#### Other Required Hours (Take 3 credits)

- DFT 170 - Engineering Graphics **Credits: 3**

### Pre-major Electives Group I (Take 3 credits)

- EGR 212 - Logic System Design I **Credits: 3**

- EGR 214 - Num Methods for Engineers **Credits: 3**
- EGR 220 - Engineering Statics **Credits: 3**
- EGR 225 - Engineering Dynamics **Credits: 3**

### Pre-major Electives Group II (Take 6 credits)

- BIO 111 - General Biology I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**
- CHM 251 - Organic Chemistry I **Credits: 4**
- CHM 252 - Organic Chemistry II **Credits: 4**
- CSC 151 - JAVA Programming **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- EGR 212 - Logic System Design I **Credits: 3**
- EGR 214 - Num Methods for Engineers **Credits: 3**
- EGR 220 - Engineering Statics **Credits: 3**
- EGR 225 - Engineering Dynamics **Credits: 3**
- GEL 111 - Geology **Credits: 4**
- MAT 280 - Linear Algebra **Credits: 3**
- MAT 285 - Differential Equations **Credits: 3**
- PED 110 - Fit and Well for Life **Credits: 2**

### Total Credits: 60

## Semester Sequence

### Semester Sequence

#### Fall I

- ACA 122 - College Transfer Success **Credits: 1**
- CHM 151 - General Chemistry I **Credits: 4**
- EGR 150 - Intro to Engineering **Credits: 2**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Spring I

- DFT 170 - Engineering Graphics **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

- MAT 272 - Calculus II **Credits: 4**
- PHY 251 - General Physics I **Credits: 4**

### Summer I

- GEL 111 - Geology **Credits: 4**
- Pre-Major Elective **Credits: 3**

### Fall II

- COM 231 - Public Speaking **Credits: 3**
- MAT 273 - Calculus III **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**
- Other Gen-Ed/Pre-Major Elective **Credits: 3/4**

### Spring II

- ECO 151 - Survey of Economics **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**
- Other Gen-Ed/Pre-Major Elective **Credits: 3/4**

## A10600 - Associate in Fine Arts in Visual Arts

### Overview

#### Department Title      Program Code

Assoc Fine Arts Visual Arts A10600

### Program Description

The Associate in Fine Arts in Visual Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours 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.

UNIVERSAL GENERAL EDUCATION TRANSFER (UGETC) COMPONENT All Universal General Education Transfer Component courses will transfer for equivalency credit.)

### Degree

Associate in Fine Arts

### Program of Study

#### Program Requirements

#### Universal General Education Transfer Component (Credits: 25-26)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

#### Communications/Humanities/Fine Arts Electives

(Take 6 credits, *Minimum 2 subjects*)

- ART 111 - Art Appreciation **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**

- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Social/Behavioral Sciences Electives** (Select one course from each group below. Take 6 credits)

**Group I**

- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**

**Group II**

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Mathematics Electives** (Take 3/4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 271 - Calculus I **Credits: 4**

**Natural Sciences Electives** (Take 4 credits)

*(Reminder: AST 111 and PHY 110 have mandatory labs.)*

- AST 111 - Descriptive Astronomy **Credits: 3 and**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**

- BIO 111 - General Biology I **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- GEL 111 - Geology **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

**Other Required Hours (Credits: 35)**

**College Success Course** (Take 1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

**Additional UGETC ART Courses** (Take 6 credits)

- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**

**Other Required ART Courses** (Take 9 credits)

- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 122 - Three-Dimensional Design **Credits: 3**
- ART 131 - Drawing I **Credits: 3**

**Additional Hours** (Take 19 credits)

An additional **19 SHC** of courses should be selected from the courses listed below. Students should select these courses based on their intended major and transfer university.

- ART 113 - Art Methods and Materials **Credits: 3**
- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- ART 118 - Art by Women **Credits: 3**
- ART 132 - Drawing II **Credits: 3**
- ART 135 - Figure Drawing I **Credits: 3**
- ART 170 - The Business of Art **Credits: 3**
- ART 171 - Digital Design I **Credits: 3**
- ART 212 - Gallery Assistantship I **Credits: 3**
- ART 215 - Visual Art Portfolio **Credits: 3**
- ART 231 - Printmaking I **Credits: 3**

- ART 232 - Printmaking II **Credits: 3**
- ART 235 - Figure Drawing II **Credits: 3**
- ART 240 - Painting I **Credits: 3**
- ART 241 - Painting II **Credits: 3**
- ART 245 - Metals I **Credits: 3**
- ART 246 - Metals II **Credits: 3**
- ART 247 - Jewelry I **Credits: 3**
- ART 248 - Jewelry II **Credits: 3**
- ART 260 - Photography Appreciation **Credits: 3**
- ART 261 - Photography I **Credits: 3**
- ART 262 - Photography II **Credits: 3**
- ART 264 - Digital Photography I **Credits: 3**
- ART 265 - Digital Photography II **Credits: 3**
- ART 266 - Videography I **Credits: 3**
- ART 267 - Videography II **Credits: 3**
- ART 271 - Digital Design II **Credits: 3**
- ART 275 - Introduction to Graphic Design **Credits: 3**
- ART 276 - Interactive Media Design **Credits: 3**
- ART 281 - Sculpture I **Credits: 3**
- ART 282 - Sculpture II **Credits: 3**
- ART 283 - Ceramics I **Credits: 3**
- ART 284 - Ceramics II **Credits: 3**
- ART 285 - Ceramics III **Credits: 3**
- ART 286 - Ceramics IV **Credits: 3**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- PED 110 - Fit and Well for Life **Credits: 2**

### Foreign Language

Can take up to **9 credits** in sequential foreign language courses.

- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**

- SPA 211 - Intermediate Spanish I **Credits: 3**
- FRE 111 - Elementary French I **Credits: 3**
- FRE 112 - Elementary French II **Credits: 3**
- FRE 211 - Intermediate French I **Credits: 3**
- GER 111 - Elementary German I **Credits: 3**
- GER 112 - Elementary German II **Credits: 3**
- GER 211 - Intermediate German I **Credits: 3**

**Total Requirement in Semester Hours: 60/61**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACA 122 - College Transfer Success **Credits: 1**
- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 122 - Three-Dimensional Design **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- Communications/Humanities/Fine Art Elective
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Spring I

- ART 114 - Art History Survey I **Credits: 3**
- ART 131 - Drawing I **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- Art Electives/Foreign Language

#### Fall II

- ART 115 - Art History Survey II **Credits: 3**
- ART 215 - Visual Art Portfolio **Credits: 3**
- Social/Behavioral Sciences Elective
- Mathematics Elective
- Communications/Humanities/Fine Arts Elective

- Art Electives/ Foreign Language

## Spring II

- Social/Behavioral Sciences Elective
- Natural Sciences Elective
- Art Electives / Foreign Language

# A10700 - Associate in Fine Arts in Music

## Overview

| Department Title      | Program Code |
|-----------------------|--------------|
| Assoc Fine Arts Music | A10700       |

## Program Description

The Associate in Fine Arts in Music degree shall be granted for a planned program of study consisting of a minimum of 64-65 semester hours 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.

**GENERAL EDUCATION** The general education core includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Courses classified as Universal General Education Transfer Component (UGETC) courses are recommended.

## Degree

Associate in Fine Arts

## Program of Study

### Program Requirements

#### General Education Requirements (Credits: 25)

**English** (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

**Communications/Humanities/Fine Arts Electives**  
(Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Social/Behavioral Sciences Electives** (Take 6 credits,  
*Minimum 2 subjects*)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Natural Sciences Electives** (Take 4 credits)

**Reminder: AST 111 and PHY 110 have mandatory labs**

- AST 111 - Descriptive Astronomy **Credits: 3 and**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- GEL 111 - Geology **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3 and**

- PHY 110A - Conceptual Physics Lab **Credits: 1**

**Mathematics Electives** (Take 3/4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 271 - Calculus I **Credits 4**

**Additional General Education Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Other Required Hours (Take 35 credits)**

**Academic Transition** (Take 1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

**Music Theory** (Take 8 credits)

- MUS 121 - Music Theory I **Credits: 3**
- MUS 122 - Music Theory II **Credits: 3**
- MUS 125 - Aural Skills I **Credits: 1**
- MUS 126 - Aural Skills II **Credits: 1**

**Applied Music** (Take 4 credits)

- MUS 161 - Applied Music I **Credits: 2**
- MUS 162 - Applied Music II **Credits: 2**



### **Ensemble (Take 2 credits)**

- MUS 131 - Chorus I **Credits: 1**
- MUS 132 - Chorus II **Credits: 1**
- MUS 135 - Jazz Ensemble I **Credits: 1**
- MUS 136 - Jazz Ensemble II **Credits: 1**
- MUS 137 - Orchestra I **Credits: 1**
- MUS 138 - Orchestra II **Credits: 1**
- MUS 141 - Ensemble I **Credits: 1**
- MUS 142 - Ensemble II **Credits: 1**

### **Class Music (Take 2 credits)**

- MUS 151 - Class Music I **Credits: 1**
- MUS 152 - Class Music II **Credits: 1**

### **Music Electives (Take 18 credits)**

- MUS 110 - Music Appreciation **Credits: 3**
- MUS 111 - Fundamentals of Music **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- MUS 114 - Introduction to World Music **Credits: 3**
- MUS 131 - Chorus I **Credits: 1**
- MUS 132 - Chorus II **Credits: 1**
- MUS 135 - Jazz Ensemble I **Credits: 1**
- MUS 136 - Jazz Ensemble II **Credits: 1**
- MUS 137 - Orchestra I **Credits: 1**
- MUS 138 - Orchestra II **Credits: 1**
- MUS 141 - Ensemble I **Credits: 1**
- MUS 142 - Ensemble II **Credits: 1**
- MUS 210 - History of Rock Music **Credits: 3**
- MUS 211 - History of Country Music **Credits: 3**
- MUS 214 - Electronic Music I **Credits: 2**
- MUS 215 - Electronic Music II **Credits: 2**
- MUS 221 - Music Theory III **Credits: 3**

- MUS 222 - Music Theory IV **Credits: 3**
- MUS 225 - Aural Skills III **Credits: 1**
- MUS 226 - Aural Skills IV **Credits: 1**
- MUS 231 - Chorus III **Credits: 1**
- MUS 232 - Chorus IV **Credits: 1**
- MUS 235 - Jazz Ensemble III **Credits: 1**
- MUS 236 - Jazz Ensemble IV **Credits: 1**
- MUS 237 - Orchestra III **Credits: 1**
- MUS 238 - Orchestra IV **Credits: 1**
- MUS 241 - Ensemble III **Credits: 1**
- MUS 242 - Ensemble IV **Credits: 1**
- MUS 261 - Applied Music III **Credits: 2**
- MUS 262 - Applied Music IV **Credits: 2**

**Total Credits: 60**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- MUS 121 - Music Theory I **Credits: 3**
- MUS 125 - Aural Skills I **Credits: 1**
- MUS 151 - Class Music I **Credits: 1**
- MUS 161 - Applied Music I **Credits: 2**
- ACA 122 - College Transfer Success **Credits: 1**
- Ensemble I **Credits: 1**
- Music Elective **Credits: 3**

#### **Spring I**

- COM/Humanities/Fine Arts Elective **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- MUS 122 - Music Theory II **Credits: 3**
- MUS 126 - Aural Skills II **Credits: 1**

- MUS 152 - Class Music II **Credits: 1**
- MUS 162 - Applied Music II **Credits: 2**
- Ensemble II **Credits: 1**
- Music Elective **Credits: 3**

## Fall II

- Social Science **Credits: 3**
- Mathematics **Credits: 3**
- COM/Humanities/Fine Arts **Credits: 3**
- Music Electives **Credits: 6-7**

## Spring II

- Social Science **Credits: 3**
- Natural Science **Credits: 4**
- Music Electives **Credits: 7-8**

# A10800 - Associate in Fine Arts in Theatre

## Overview

### Department Title      Program Code

Assoc Fine Arts Theatre      A10800

### Program Description

The Associate in Fine Arts in Theatre degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours 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.

UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT All Universal General Education Transfer Component courses will transfer for equivalency credit.

### Degree

Associate in Fine Arts

## Program of Study

### Program Requirements

#### General Education Core (Credits: 31)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

#### Communications/Humanities/Fine Arts Electives

(Take 9 credits, *Minimum 2 subjects*)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Social/Behavioral Sciences Electives** (Take 9 credits,  
*Minimum 2 subjects*)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Mathematics Electives** (Take 3/4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 271 - Calculus I **Credits: 4**

**Natural Sciences Electives** (Take 4 credits)

**Reminder: AST 111, AST 151 and PHY 110 have mandatory labs**

- AST 111 - Descriptive Astronomy **Credits: 3 and**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**
- AST 151 - General Astronomy I **Credits: 3 and**

- AST 151A - General Astronomy I Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- CHM 151 - General Chemistry I **Credits: 4**
- GEL 111 - Geology **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

**Other Required Hours (Credits: 29)**

**College Success Course** (Take 1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

**Additional Theatre Courses** (Take 6 credits)

- DRA 211 - Theatre History I **Credits: 3**
- DRA 212 - Theatre History II **Credits: 3**

**Select one of the following tracks** (Take 9 credits)

**Acting Track**

- DRA 130 - Acting I **Credits: 3**
- DRA 135 - Acting for the Camera I **Credits: 3**
- DRA 170 - Play Production I **Credits: 3**

**Technical Track**

- DRA 140 - Stagecraft I **Credits: 3**
- DRA 141 - Stagecraft II **Credits: 3**
- DRA 170 - Play Production I **Credits: 3**

**Additional Hours**

An additional **13 SHC** should be selected from the courses listed below. Students should select courses based on their intended major and transfer university.

- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 122 - Three-Dimensional Design **Credits: 3**
- ART 131 - Drawing I **Credits: 3**
- ART 135 - Figure Drawing I **Credits: 3**
- ART 215 - Visual Art Portfolio **Credits: 3**

- ART 261 - Photography I **Credits: 3**
- ART 264 - Digital Photography I **Credits: 3**
- ASL 111 - Elementary ASL I **Credits: 3**
- ASL 112 - Elementary ASL II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- DRA 118 - Script Analysis **Credits: 3**
- DRA 120 - Voice for Performance **Credits: 3**
- DRA 126 - Storytelling **Credits: 3**
- DRA 128 - Children's Theatre **Credits: 3**
- DRA 130 - Acting I **Credits: 3**
- DRA 131 - Acting II **Credits: 3**
- DRA 135 - Acting for the Camera I **Credits: 3**
- DRA 140 - Stagecraft I **Credits: 3**
- DRA 142 - Costuming **Credits: 3**
- DRA 144 - Introduction to Stage Design **Credits: 3**
- DRA 145 - Stage Make-Up **Credits: 2**
- DRA 170 - Play Production I **Credits: 3**
- DRA 171 - Play Production II **Credits: 3**
- DRA 240 - Lighting for the Theatre **Credits: 3**
- FRE 111 - Elementary French I **Credits: 3**
- FRE 112 - Elementary French II **Credits: 3**
- FRE 181 - French Lab 1 **Credits: 1**
- FRE 182 - French Lab 2 **Credits: 1**
- FRE 211 - Intermediate French I **Credits: 3**
- FRE 212 - Intermediate French II **Credits: 3**
- GER 111 - Elementary German I **Credits: 3**
- GER 112 - Elementary German II **Credits: 3**
- GER 181 - German Lab 1 **Credits: 1**
- GER 182 - German Lab 2 **Credits: 1**
- GER 211 - Intermediate German I **Credits: 3**
- GER 212 - Intermediate German II **Credits: 3**
- HUM 160 - Introduction to Film **Credits: 3**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 175 - Precalculus **Credits: 5**
- MUS 121 - Music Theory I **Credits: 3**
- MUS 122 - Music Theory II **Credits: 3**
- MUS 131 - Chorus I **Credits: 1**
- MUS 132 - Chorus II **Credits: 1**
- MUS 135 - Jazz Ensemble I **Credits: 1**
- MUS 136 - Jazz Ensemble II **Credits: 1**
- MUS 137 - Orchestra I **Credits: 1**
- MUS 138 - Orchestra II **Credits: 1**
- MUS 141 - Ensemble I **Credits: 1**
- MUS 142 - Ensemble II **Credits: 1**
- MUS 151 - Class Music I **Credits: 1**
- MUS 152 - Class Music II **Credits: 1**
- MUS 214 - Electronic Music I **Credits: 2**
- MUS 231 - Chorus III **Credits: 1**
- MUS 232 - Chorus IV **Credits: 1**
- MUS 235 - Jazz Ensemble III **Credits: 1**
- MUS 236 - Jazz Ensemble IV **Credits: 1**
- MUS 237 - Orchestra III **Credits: 1**
- MUS 238 - Orchestra IV **Credits: 1**
- MUS 241 - Ensemble III **Credits: 1**
- MUS 242 - Ensemble IV **Credits: 1**
- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 181 - Spanish Lab 1 **Credits: 1**
- SPA 182 - Spanish Lab 2 **Credits: 1**
- SPA 211 - Intermediate Spanish I **Credits: 3**
- SPA 212 - Intermediate Spanish II **Credits: 3**

**Total Requirement in Semester Hours:  
60/61**

## Semester Sequence

### Semester Sequence

#### Acting Track

##### Fall I

- ACA 122 - College Transfer Success **Credits: 1**
- ENG 111 - Writing and Inquiry **Credits: 3**
- DRA 130 - Acting I **Credits: 3**
- Theatre Elective Courses

##### Spring I

- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- Mathematics Elective
- DRA 135 - Acting for the Camera I **Credits: 3**
- DRA 170 - Play Production I **Credits: 3**

##### Fall II

- Communications/Humanities/Fine Arts Elective
- Theatre Elective Courses
- Social/Behavioral Science Elective
- Social/Behavioral Science Elective
- DRA 211 - Theatre History I **Credits: 3**

##### Spring II

- Theatre Elective Course
- Communications/Humanities/Fine Arts Elective
- Natural Sciences Elective
- Social/Behavioral Science Elective
- DRA 212 - Theatre History II **Credits: 3**

#### Technical Track

##### Fall I

- ACA 122 - College Transfer Success **Credits: 1**
- ENG 111 - Writing and Inquiry **Credits: 3**

- COM 231 - Public Speaking **Credits: 3**
- DRA 170 - Play Production I **Credits: 3**
- DRA 140 - Stagecraft I **Credits: 3**

##### Spring I

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- Theatre Elective Courses
- Social/Behavioral Science Elective
- Communications/Humanities/Fine Arts Elective
- Mathematics Elective

##### Fall II

- Theatre Elective Courses
- Social/Behavioral Science Elective
- DRA 141 - Stagecraft II **Credits: 3**
- DRA 211 - Theatre History I **Credits: 3**

##### Spring II

- Theatre Elective Course
- Communications/Humanities/Fine Arts Elective
- Natural Sciences Elective
- Social/Behavioral Science Elective
- DRA 212 - Theatre History II **Credits: 3**

# A15260 - Landscape Gardening

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Landscape Gardening | A15260       |

## Program Description

Pathway Description: These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

Landscape Gardening: A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Potential course work includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements Credits: 15

##### Communications (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

##### Math (Take 3 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**

##### Social/Behavioral Science Electives (Take 3 credits)

- ANT 210 - General Anthropology **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**

#### Major Requirements Credits: 25

##### Plant Identification (Take 3 credits)

- HOR 160 - Plant Materials I **Credits: 3**

##### Pest Management (Take 3 credits)

- HOR 164 - Hort Pest Management **Credits: 3**

##### Design (Take 3 credits)

- HOR 112 - Landscape Design I **Credits: 3**

##### Landscape Gardening (Take 13 credits)

- HOR 114 - Landscape Construction **Credits: 3**
- HOR 134 - Greenhouse Operations **Credits: 3**
- LSG 121 - Fall Gardening Lab **Credits: 2**
- LSG 122 - Spring Gardening Lab **Credits: 2**

- LSG 123 - Summer Gardening Lab **Credits: 2**
- **Soil Science** (Take 3 credits)
- HOR 166 - Soils & Fertilizers **Credits: 3**

### **Other Major Requirements Credits: 26**

- AGR 139 - Intro to Sustainable Ag **Credits: 3**
- HOR 118 - Equipment Op & Maint **Credits: 2**
- HOR 124 - Nursery Operations **Credits: 3**
- HOR 161 - Plant Materials II **Credits: 3**
- HOR 162 - Applied Plant Science **Credits: 3**
- HOR 168 - Plant Propagation **Credits: 3**
- HOR 213 - Landscape Design II **Credits: 3**
- LSG 232 - Garden Management **Credits: 2**
- TRF 110 - Intro Turfgrass Cult & ID **Credits: 4**
- WBL 111G - Work-Based Learning I **Credits: 1**

**Total Credits: 66**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- LSG 121 - Fall Gardening Lab **Credits: 2**
- HOR 114 - Landscape Construction **Credits: 3**
- HOR 160 - Plant Materials I **Credits: 3**
- HOR 162 - Applied Plant Science **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### **Spring I**

- AGR 139 - Intro to Sustainable Ag **Credits: 3**
- HOR 118 - Equipment Op & Maint **Credits: 2**
- HOR 161 - Plant Materials II **Credits: 3**
- HOR 166 - Soils & Fertilizers **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### **Summer I**

- LSG 123 - Summer Gardening Lab **Credits: 2**

- TRF 110 - Intro Turfgrass Cult & ID **Credits: 4**
- WBL 111G - Work-Based Learning I **Credits: 1**

#### **Fall II**

- ENG 114 - Prof Research & Reporting **Credits: 3**
- HOR 112 - Landscape Design I **Credits: 3**
- HOR 124 - Nursery Operations **Credits: 3**
- HOR 168 - Plant Propagation **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### **Spring II**

- HOR 134 - Greenhouse Operations **Credits: 3**
- HOR 164 - Hort Pest Management **Credits: 3**
- HOR 213 - Landscape Design II **Credits: 3**
- LSG 122 - Spring Gardening Lab **Credits: 2**
- LSG 232 - Garden Management **Credits: 2**
- Social/Behavioral Science Elective **Credits: 3**



# A15320 - Marine Technology

## Overview

| Department Title  | Program Code |
|-------------------|--------------|
| Marine Technology | A15320       |

## Program Description

Pathway Description: These curricula prepare individuals for a variety of marine-related occupations such as marine conservation, water analysis, marine scientific research support and commercial fishing. Individuals will be prepared as naturalists within the ecotourism industry and be trained in observational and measurement techniques aboard a variety of vessels including ocean-going research vessels.

Course work includes a unique blend of traditional and contemporary vocational, technical, and scientific marine education. Course work specific for Marine Sciences includes instruction in biological sciences, environmental sciences, and marine sciences. Field and laboratory experiences prepare students to identify, observe, and collect scientific data associated with the fauna and flora found in the rivers, estuaries, sounds, and ocean. Course work in Marine Technologies includes instruction in the use of physical, chemical, meteorological, biological, and geological oceanographic instrumentation and sampling equipment.

Graduates are prepared for employment opportunities with aquariums, fisheries, corps of engineers, marine patrol, ecotourism companies, commercial fishing industries, entry-level field or laboratory positions with industries, state and federal agencies, and educational facilities associated with marine science and research. Career opportunities include oceanography, environmental science, marine biology, geophysical exploration, and fisheries-related employment.

Marine Technology: A program that provides the practical and academic skills essential for success in marine scientific support. Training in the operation and maintenance of seismic and hydrographic

instrumentation including: side scan sonar, multibeam echo sounders, and sub-bottom profilers is provided in the classroom and underway at sea. Additional course work includes: classic and digital navigation techniques, practical applications of boat handling, seamanship, marlinspike seamanship, and safety at sea. Instruction applicable to fisheries science and environmental assessment is provided.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements Credits: 15

##### Communication (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

##### Math (Take 3 credits)

- MAT 121 - Algebra/Trigonometry I **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 233 - Major American Writers **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 261 - World Literature I **Credits: 3**
- ENG 262 - World Literature II **Credits: 3**

- UM 115 - Critical Thinking **Credits: 3**
- HUM 122 - Southern Culture **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 111 - Fundamentals of Music **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 210 - History of Philosophy **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**
- REL 110 - World Religions **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**
- REL 211 - Intro to Old Testament **Credits: 3**
- REL 212 - Intro to New Testament **Credits: 3**
- REL 221 - Religion in America **Credits: 3**

**Social/Behavioral Science Electives (Take 3 credits)**

- ANT 210 - General Anthropology **Credits: 3**
- ANT 220 - Cultural Anthropology **Credits: 3**
- ANT 240 - Archaeology **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 121 - Western Civilization I **Credits: 3**
- HIS 122 - Western Civilization II **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 110 - Intro Political Science **Credits: 3**
- POL 120 - American Government **Credits: 3**
- POL 210 - Comparative Government **Credits: 3**
- POL 220 - International Relations **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**

- PSY 281 - Abnormal Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 213 - Sociology of the Family **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**
- SOC 225 - Social Diversity **Credits: 3**
- SOC 230 - Race and Ethnic Relations **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**

**Major Requirements Credits: 38**

- MSC 110 - Training Cruise I **Credits: 1**
- MSC 112 - Training Cruise II **Credits: 1**
- MSC 114 - Training Cruise III **Credits: 1**
- MSC 122 - Boat Handling/Seamanship **Credits: 3**
- MSC 124 - Industrial Skills **Credits: 3**
- MSC 126 - Marine Engines **Credits: 2**
- MSC 132 - Fishing Gear Tech I **Credits: 3**
- MSC 134 - Fishing Gear Tech II **Credits: 2**
- MSC 150 - Marine Navigation **Credits: 3**
- MSC 152 - Marine Instrumentation **Credits: 2**
- MSC 160 - Oceanography **Credits: 3**
- MSC 172 - Marine Biology **Credits: 3**
- MSC 174 - Marine Invertebrate Zoo **Credits: 4**
- MSC 180 - Water Analysis **Credits: 3**
- MSC 276 - Marine Vertebrate Zoo **Credits: 4**

**Other Major Requirements (Take 16 credits)**

- ELN 114 - Marine Electronics **Credits: 2**
- MSC 210 - Marine Envir Samp & Analysis **Credits: 2**
- MSC 216 - Training Cruise IV **Credits: 1**
- MSC 218 - Training Cruise V **Credits: 1**
- MSC 220 - Marine GIS **Credits: 3**
- MSC 254 - Marine Data Processing **Credits: 2**

- MSC 256 - Cartogr/Hydro Surveying **Credits: 2**
- NET 125 - Introduction to Networks **Credits: 3**

**Total Credits: 69**

## Semester Sequence

### Semester Sequence

#### Fall I

- MSC 110 - Training Cruise I **Credits: 1**
- MSC 122 - Boat Handling/Seamanship **Credits: 3**
- MSC 132 - Fishing Gear Tech I **Credits: 3**
- MSC 172 - Marine Biology **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**

#### Spring I

- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MSC 112 - Training Cruise II **Credits: 1**
- MSC 124 - Industrial Skills **Credits: 3**
- MSC 150 - Marine Navigation **Credits: 3**
- MSC 276 - Marine Vertebrate Zoo **Credits: 4**

#### Summer I

- ENG 111 - Writing and Inquiry **Credits: 3**
- MSC 114 - Training Cruise III **Credits: 1**
- MSC 126 - Marine Engines **Credits: 2**
- MSC 134 - Fishing Gear Tech II **Credits: 2**
- MSC 152 - Marine Instrumentation **Credits: 2**

#### Fall II

- MSC 160 - Oceanography **Credits: 3**
- MSC 174 - Marine Invertebrate Zoo **Credits: 4**
- MSC 210 - Marine Envir Samp & Analysis **Credits: 2**
- MSC 216 - Training Cruise IV **Credits: 1**

- Humanities/Fine Arts Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### Spring II

- ELN 114 - Marine Electronics **Credits: 2**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- MSC 180 - Water Analysis **Credits: 3**
- MSC 218 - Training Cruise V **Credits: 1**
- MSC 220 - Marine GIS **Credits: 3**
- MSC 254 - Marine Data Processing **Credits: 2**
- MSC 256 - Cartogr/Hydro Surveying **Credits: 2**

# A20120 - Chemical Technology

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Chemical Technology | A20120       |

### Program Description

The Chemical Technology curriculum prepares individuals for work as analytical technicians in chemical laboratories associated with chemical production, environmental concerns, pharmaceuticals, or general analysis.

Course work includes general chemistry, organic chemistry, introductory chemical engineering, qualitative analysis, and quantitative analysis, including such instrumental techniques as spectroscopy (UV-Vis, IR, AA) and chromatography (GC, LC). Students also utilize computerized data collection, reduction, and graphic presentation.

Graduates should qualify as entry-level chemical laboratory technicians. Their duties may include chemical solution preparation; raw material, product, or environmental sampling; and/or sample testing via wet chemistry or instrumental techniques.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements Credits: 20

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**

- DRA 111 - Theatre Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- REL 110 - World Religions **Credits: 3**

Natural Sciences (Take 8 credits)

- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**

Social/Behavioral Science Electives (Take 3 credits)

- ANT 210 - General Anthropology **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements Credits: 38

- CTC 110 - Chemical Safety & Technology **Credits: 2**
- CTC 114 - Wet Laboratory Techniques **Credits: 5**
- CTC 115 - Quality Control Laboratory **Credits: 5**
- CTC 145 - Advanced Laboratory Methods **Credits: 6**
- CTC 150 - Standards & Solutions **Credits: 2**
- CTC 210 - Forensic Laboratory **Credits: 2**
- CTC 235 - Food Chemistry **Credits: 2**
- CTC 240 - Instru I: Spectroscopy **Credits: 6**
- CTC 250 - Instru II: Chromatography **Credits: 6**
- CTC 260 - Chemical Technology Capstone **Credits: 2**

#### Other Major Requirements Credits: 11

Required (Take 8 credits)

- CHM 251 - Organic Chemistry I **Credits: 4**
- CHM 252 - Organic Chemistry II **Credits: 4**

### **Chemical Technology Electives (Take 3 credits)**

- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**
- BIO 163 - Basic Anat & Physiology **Credits: 5**
- BIO 168 - Anatomy and Physiology I **Credits: 4**
- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 121 - Work-Based Learning II **Credits: 1**

**Total Credits: 69**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- CHM 151 - General Chemistry I **Credits: 4**
- CTC 110 - Chemical Safety & Technology **Credits: 2**
- CTC 114 - Wet Laboratory Techniques **Credits: 5**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### **Spring I**

- CHM 152 - General Chemistry II **Credits: 4**
- CTC 115 - Quality Control Laboratory **Credits: 5**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- CTC 150 - Standards & Solutions **Credits: 2**

#### **Summer I**

- CTC 145 - Advanced Laboratory Methods **Credits: 6**

- Humanities/Fine Arts Elective
- Social/Behavioral Sciences Elective

#### **Fall II**

- CHM 251 - Organic Chemistry I **Credits: 4**
- CTC 210 - Forensic Laboratory **Credits: 2**
- CTC 240 - Instru I: Spectroscopy **Credits: 6**
- Chemical Technology Elective

#### **Spring II**

- CHM 252 - Organic Chemistry II **Credits: 4**
- CTC 235 - Food Chemistry **Credits: 2**
- CTC 250 - Instru II: Chromatography **Credits: 6**
- CTC 260 - Chemical Technology Capstone **Credits: 2**

# A25110 - Hospitality Management

## Overview

### Department Title      Program Code

Hospitality Management      A25110

### Program Description

This curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

Natural Sciences/Math Electives (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

Social/Behavioral Science Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**



- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

## Major Requirements Credits: 26

### Required Courses (Take 20 credits)

- CUL 110 - Sanitation & Safety **Credits: 2**
- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 240 - Marketing for Hospitality **Credits: 3**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**
- HRM 280 - Mgmt Problems-Hospitality **Credits: 3**

### Required Subject Area (Take 4 credits)

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- ACC 175 - Hotel and Restaurant Acct **Credits: 4**

### Work-Based Learning (Take 2 credits)

- WBL 111H - Work-Based Learning I **Credits: 1**
- WBL 112H - Work-Based Learning I **Credits: 2**
- WBL 121H - Work-Based Learning II **Credits: 1**

## Other Major Requirements Credits: 25

### Required Courses (Take 16 credits)

- BUS 230 - Small Business Management **Credits: 3**
- HRM 135 - Facilities Management **Credits: 3**
- HRM 160 - Info Systems for Hosp **Credits: 3**
- HRM 275 - Leadership-Hospitality **Credits: 3**

- SPA 120 - Spanish for the Workplace **Credits: 3**
- WBL 110 - World of Work **Credits: 1**

### Electives (Take 9 credits)

- HRM 120 - Front Office Procedures **Credits: 3**
- HRM 124 - Guest Service Management **Credits: 3**
- HRM 130 - Bed and Breakfast Mgt. **Credits: 3**
- HRM 180 - The Business of Tourism **Credits: 3**
- HRM 210 - Meetings & Event Planning **Credits: 3**
- HRM 215 - Restaurant Management **Credits: 3**
- HRM 225 - Beverage Management **Credits: 3**
- HRM 230 - Club & Resort Management **Credits: 3**

## Total Credits: 66-67

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation & Safety **Credits: 2**
- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 160 - Info Systems for Hosp **Credits: 3**
- HRM 275 - leadership - Hospitality **Credits: 3**
- WBL 110 - World of Work **Credits: 1**

#### Spring I

- ENG 111 - Writing and Inquiry **Credits: 3**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**
- HRM 280 - Mgmt Problems-Hospitality **Credits: 3**
- Hospitality Management Elective **Credits: 6**



## Summer I

- Communications Elective **Credits: 3**
- SPA 120 - Spanish for the Workplace **Credits: 1**
- Humanities/Fine Arts Elective **Credits: 3**

## Fall II

- BUS 230- Small Business Management **Credits: 3**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- Natural Sciences/Math Elective **Credits: 3-4**
- Hospitality Management Elective **Credits: 1-5**
- Social/Behavioral Science Elective **Credits: 3**

## Spring II

- HRM 135- Facilities Management **Credits: 3**
- HRM 240- Marketing for Hospitality **Credits: 3**
- Accounting Elective **Credits: 4**
- Work-Based Learning I **Credits: 2**

**\*Note:** Student may take WBL 112H (320 hrs) in lieu of taking WBL 111H (160 hrs) & WBL 121H (160 hrs)

# A25120 - Business Administration

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | A25120       |

## Program 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.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

### General Education Requirements (15- 16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- **Communications Elective** (Take 3 credits)
- COM 110 - Intro to Communications **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

- COM 231 -Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Science/Math Electives** (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Electives** (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**

- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Major Requirements (21 credits)**

- BUS 110 - Introduction to Business **Credits: 3**
- BUS 115 - Business Law I **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**

**Accounting** (Take 4 credits)

- ACC 120 - Prin of Financial Accounting **Credits: 4**

**Economics** (Take 3 credits)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**

**Computer Applications** (Take 2-3 credits)

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**

**Subject Area Requirements (Take 12 credits)**

**General Business Administration**

- BUS 121 - Business Math **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**
- BUS 225 - Business Finance **Credits: 3**
- BUS 285 - Business Management Issues **Credits: 3**

**Other Major Requirements (22 credits)**

**Required Courses** (Take 13 credits)

- ACC 121 - Prin of Managerial Accounting **Credits: 4**

- CSC 113 - Artificial Intel. Fundamentals **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**

**Business Administration Electives** (Take 9 credits)

- ACC 150 - Accounting Software Appl **Credits: 2**
- BAF 110 - Principles of Banking **Credits: 3**
- BAF 111 - Teller Training **Credits: 3**
- BAF 143 - Financial Planning **Credits: 3**
- BAF 232 - Consumer Lending **Credits: 3**
- BAF 234 - Residential Mort Lending **Credits: 3**
- BUS 135 - Principles of Supervision **Credits: 3**
- BUS 139 - Entrepreneurship I **Credits: 3**
- BUS 147 - Business Insurance **Credits: 3**
- BUS 230 - Small Business Management **Credits: 3**
- BUS 253 - Leadership and Mgt Skills **Credits: 3**
- BUS 270 - Professional Development **Credits: 3**
- CTS 240 - Project Management **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**
- FRE 111 - Elementary French I **Credits: 3**
- GER 111 - Elementary German I **Credits: 3**
- INS 121 - Life Insurance **Credits: 3**
- INS 122 - Accident and Health Insurance **Credits: 3**
- INS 129 - Property & Casualty Insurance **Credits: 3**
- INT 110 - International Business **Credits: 3**
- ISC 121 - Envir Health & Safety **Credits: 3**
- ISC 131 - Quality Management **Credits: 3**
- ISC 136 - Productivity Analysis I **Credits: 3**
- ISC 210 - Oper & Prod Planning **Credits: 3**

- ISC 220 - Lean Manufacturing **Credits: 3**
- MKT 220 - Advertising and Sales Promotio **Credits: 3**
- MKT 221 - Consumer Behavior **Credits: 3**
- MKT 223 - Customer Experience **Credits: 3**
- MKT 224 - International Marketing **Credits: 3**
- MKT 225 - Marketing Research **Credits: 3**
- MKT 227 - Marketing Applications **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 3**
- OMT 110 - Intro to Operations Mgmt **Credits: 3**
- OMT 112 - Materials Management **Credits: 3**
- OMT 132 - ISO 9000 Standards **Credits: 3**
- OMT 260 - Issues in Operations Mgt. **Credits: 3**
- OST 136 - Word Processing **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**
- SPA 111 - Elementary Spanish I **Credits: 3**
- WBL 111B - Work-Based Learning I **Credits: 1**
- WBL 121B - Work-Based Learning II **Credits: 1**
- WBL 131B - Work-Based Learning III **Credits: 1**

**Total Credits: 70-72**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BUS 110 - Introduction to Business **Credits: 3**
- BUS 121 - Business Math **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**

- ENG 111 - Writing and Inquiry **Credits: 3**

### Spring I

- ACC 121 - Prin of Managerial Accounting **Credits: 4**
- BUS 125 - Personal Finance **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**

### Summer I

- Communications Elective **Credits: 3**
- Business Administration Elective **Credits: 3**
- Natural Science/Math Elective **Credits: 3-4**

### Fall II

- BUS 115 - Business Law I **Credits: 3**
- BUS 225 - Business Finance **Credits: 3**
- Economics Elective **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- Business Administration Elective **Credits: 3**

### Spring II

- BUS 285 - Business Management Issues **Credits: 3**
- CSC 113 - Artificial Intel. Fundamentals **Credits: 3**
- Business Administration Elective **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

## A25120M - Business Administration - Marketing

### Overview

#### Department Title      Program Code

Business Administration      A25120M

#### Program 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.

#### Degree

Associate in Applied Science

### Program of Study

#### Program Requirements

#### General Education Requirements (Take 15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Elective (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities Fine Arts Elective** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Sciences/Math Electives** (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Sciences Electives** (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**

- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Major Requirements (36-37 credits)**

- BUS 110 - Introduction to Business **Credits: 3**
- BUS 115 - Business Law I **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**

**Accounting**

- ACC 120 - Prin of Financial Accounting **Credits: 4**

**Economics** (Take 1 course)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**

**Computer Applications** (Take 1 course)

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**

**Marketing Required Subject Area**

- MKT 220 - Advertising and Sales Promotion **Credits: 3**
- MKT 223 - Customer Experience **Credits: 3**
- MKT 225 - Marketing Research **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 3**

**Other Major Requirements**

- CSC 113 - Artificial Intel. Fundamentals **Credits: 3**
- MKT 221 - Consumer Behavior **Credits: 3**

- MKT 224 - International Marketing **Credits: 3**
- MKT 227 - Marketing Applications **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**

**Total Credits: 66-68**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BUS 110 - Introduction to Business **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- Computer Application Elective **Credits: 2-3**

#### Spring I

- BUS 115 - Business Law I **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- MKT 224 - International Marketing **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- Economics Elective **Credits: 3**

#### Summer I

- MKT 223 - Customer Experience **Credits: 3**
- Communications Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### Fall II

- MKT 220 - Advertising and Sales Promotio **Credits: 3**
- MKT 221 - Consumer Behavior **Credits: 3**
- MKT 225 - Marketing Research **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- Natural Sciences/Math Elective **Credits: 3-4**

#### Spring II

- CSC 113 - Artificial Intel. Fundamentals **Credits: 3**
- MKT 227 - Marketing Applications **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**

# A251200 - Business Administration - Operations Management

## Overview

**Department Title**      **Program Code**  
Business Administration      A251200

## Program 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.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Humanities/Fine Arts Electives (Take 3 courses)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Natural Sciences/Math Electives (Take 1 course)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

#### Social/Behavioral Sciences Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**



- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### **Major Requirements (36-37 credits)**

- BUS 110 - Introduction to Business **Credits: 3**
- BUS 115 - Business Law I **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**

#### **Accounting**

- ACC 120 - Prin of Financial Accounting **Credits: 4**

#### **Economics (Take 1 course)**

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**

#### **Computer Applications (Take 1 course)**

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**

### **Operations Management Required Subject Area**

- ISC 121 - Envir Health & Safety **Credits: 3**
- ISC 131 - Quality Management **Credits: 3**
- ISC 210 - Oper & Prod Planning **Credits: 3**
- OMT 112 - Materials Management **Credits: 3**

### **Other Major Requirements**

- ISC 136 - Productivity Analysis I **Credits: 3**
- ISC 220 - Lean Manufacturing **Credits: 3**
- OMT 110 - Intro to Operations Mgmt **Credits: 3**
- OMT 132 - ISO 9000 Standards **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- OMT 260 - Issues in Operations Mgt. **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**

### **Total Credits: 69**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BUS 110 - Introduction to Business **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- Computer Application Elective **Credits: 3**

#### **Spring I**

- BUS 115 - Business Law I **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- OMT 110 - Intro to Operations Mgmt **Credits: 3**
- Economics Elective **Credits: 3**

#### **Summer I**

- Communications Elective **Credits: 3**
- ISC 121 - Envir Health & Safety **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

## Fall II

- ISC 131 - Quality Management **Credits: 3**
- ISC 210 - Oper & Prod Planning **Credits: 3**
- OMT 112 - Materials Management **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- Natural Science/Math Elective **Credits: 3-4**

## Spring II

- ISC 136 - Productivity Analysis I **Credits: 3**
- ISC 220 - Lean Manufacturing **Credits: 3**
- OMT 132 - ISO 9000 Standards **Credits: 3**
- OMT 260 - Issues in Operations Mgt. **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**

# A25310 - Medical Office Administration

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Medical Office Administration | A25310       |

## Program 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.

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 should 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.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15 - 16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**

- COM 231 - Public Speaking **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### **Humanities/Fine Arts Electives (Take 3 credits)**

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### **Natural Science/Math Electives (Take 3 -4 credits)**

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

#### **Social/Behavioral Sciences Electives (Take 3 credits)**

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

## **Major Requirements (24 credits)**

#### **Required Courses (Take 6 credits)**

- OST 148 - Med Ins & Billing **Credits: 3**
- OST 164 - Office Editing **Credits: 3**

#### **Computer Applications (Take 3 credits)**

- CIS 110 - Introduction to Computers **Credits: 3**

#### **Formatting/Word Processing (Take 3 credits)**

- OST 136 - Word Processing **Credits: 3**

#### **Legal/Medical Ethics (Take 3 credits)**

- OST 149 - Medical Legal Issues **Credits: 3**

#### **Medical Office Management (Take 3 credits)**

- OST 288 - Medical Office Admin Capstone **Credits: 3**

#### **Medical Terminology (Take 6 credits)**

- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**

## **Concentration Requirements**

#### **Medical Billing and Coding (Take 12 credits)**

- OST 247 - Procedure Coding **Credits: 3**
- OST 248 - Diagnostic Coding **Credits: 3**
- OST 249 - Med Coding Certification Prep **Credits: 3**
- OST 260 - Adv Coding Methodologies **Credits: 3**

## **Other Major Requirements**

#### **Required Courses (Take 18 credits)**

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- HMT 110 - Intro to Healthcare Mgt **Credits: 3**
- OST 264 - Medical Auditing **Credits: 3**
- OST 265 - Healthcare Comp & Reg **Credits: 3**

- OST 280 - Electronic Health Records **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

**Anatomy/Physiology** (Take 1 group)

**Group I**

- BIO 163 - Basic Anat & Physiology **Credits: 5**

**Group II**

- BIO 168 - Anatomy & Physiology I **Credits: 4**
- BIO 169 - Anatomy & Physiology II **Credits: 4**

**Total Credits: 74/78**

## Semester Sequence

### Semester Sequence

#### Fall I

- Anatomy/Physiology Elective **Credits: 5-8**
- CIS 110 - Introduction to Computers **Credits: 3**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**
- OST 164 - Office Editing **Credits: 3**

#### Spring I

- ENG 111 - Writing and Inquiry **Credits: 3**
- ACC 120 - Prin of Financial Accounting **Credits: 4**
- OST 149 - Medical Legal Issues **Credits: 3**
- OST 247 - Procedure Coding **Credits: 3**
- OST 248 - Diagnostic Coding **Credits: 3**

#### Summer I

- Communications Elective **Credits: 3**
- OST 136 - Word Processing **Credits: 3**
- OST 148 - Med Ins & Billing **Credits: 3**

- Humanities/Fine Arts Elective **Credits: 3**

#### Fall II

- Natural Science/Math Elective **Credits: 3-4**
- HMT 110 - Intro to Healthcare Mgt **Credits: 3**
- OST 260 - Adv Coding Methodologies **Credits: 3**
- OST 264 - Medical Auditing **Credits: 3**
- OST 280 - Electronic Health Records **Credits: 3**

#### Spring II

- OST 249 - Med Coding Certification Prep **Credits: 3**
- OST 265 - Healthcare Comp & Reg **Credits: 3**
- OST 288 - Medical Office Admin Capstone **Credits: 3**
- WBL 111 - Work-Based Learning **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**
- Social/Behavioral Science Elective **Credits: 3**

# A25350 - Business Analytics

## Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Business Analytics | A25350       |

### Program Description

The Business Analytics curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in analytical professions. Business analysts process and analyze essential information about business operations and also assimilate data for forecasting purposes.

Students will complete course work in business analytics, including general theory, best practices, data mining, data warehousing, predictive modeling, project and operations management, statistical analysis, and software packages. Related skills include business communication, critical thinking and decision making.

Graduates should qualify for employment as data technicians, data scientists, business and data analytics engineers, and business analysts in the fields of finance, banking, logistics, marketing, healthcare, manufacturing, information technology, and government organizations.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 -Public Speaking **Credits: 3**

- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

Mathematics (Take 4 credits)

- MAT 171 - Precalculus Algebra **Credits: 4**

Social/Behavioral Science Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

## Major Requirements (31 credits)

### Required Courses (Take 24 credits)

- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 121 - Data Visualization **Credits: 3**
- BAS 150 - Intro to Analytical Program. **Credits: 3**
- BAS 220 - Appl. Analytical Program. **Credits: 3**
- BAS 221 - Intro to Predictive Analytics **Credits: 3**
- BAS 240 - Data Structures for Analytics **Credits: 3**
- BAS 270 - Adv Analytical Tools & Methods **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**

### Basic Computer Skills (Take 3 credits)

- CIS 110 - Introduction to Computers **Credits: 3**

### Statistics (Take 4 credits)

- MAT 152 - Statistical Methods I **Credits: 4**

## Other Major Requirements (Take 18 credits)

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BAS 230 - Applied Predictive Modeling **Credits: 3**
- BUS 115 - Business Law I **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- CTS 115 - Info Sys Business Concepts **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**
- CTS 240 - Project Management **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**
- DBA 120 - Database Programming I **Credits: 3**

- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Experience **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- WEB 213 - Internet Mkt & Analytics **Credits: 3**

## Total Credits: 65

## Semester Sequence

### Semester Sequence

#### Fall I

- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 150 - Intro to Analytical Program. **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Spring I

- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- BAS 121 - Data Visualization **Credits: 3**
- BAS 220 - Appl. Analytical Program. **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**

#### Summer I

- CTS 130 - Spreadsheet **Credits: 3**
- Communications Electives **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### Fall II

- BAS 221 - Intro to Predictive Analytics **Credits: 3**
- BAS 240 - Data Structures for Analytics **Credits: 3**
- DBA 120 - Database Programming I **Credits: 3**
- Business Analytics Major Elective **Credits: 3-4**

## Spring II

- BAS 270 - Adv Analytical Tools & Methods  
**Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**
- Social/Behavior Science Elective **Credits: 3**
- Business Analytics Major Elective **Credits: 3-4**
- Business Analytics Major Elective **Credits: 3-4**

## A25380 - Paralegal Technology

### Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Paralegal Technology | A25380       |

### Program Description

The Paralegal Technology curriculum prepares individuals to work under the supervision of attorneys by performing routine legal tasks and assisting with substantive legal work. A paralegal/legal assistant may not practice law, give legal advice, or represent clients in a court of law.

Course work includes substantive and procedural legal knowledge in the areas of civil litigation, legal research and writing, real estate, family law, wills, estates, trusts, and commercial law. Required courses also include subjects such as English, mathematics, and computer utilization.

Graduates are trained to assist attorneys in probate work, investigations, public records search, drafting and filing legal documents, research, and office management. Employment opportunities are available in private law firms, governmental agencies, banks, insurance agencies, and other business organizations.

### Degree

Associate in Applied Science

### Program of Study

#### Program Requirements

#### General Education Requirements (15 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 6 credits)

- COM 110 - Introduction to Communication  
**Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**



- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Science/Math Electives** (Take 3 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits 4**

**Social/Behavioral Science Electives** (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**

- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Major Requirements (23 credits)**

- LEX 110 - Intro to Paralegal Study **Credits: 2**
- LEX 120 - Legal Research/Writing I **Credits: 3**
- LEX 130 - Civil Injuries **Credits: 3**
- LEX 140 - Civil Litigation I **Credits: 3**
- LEX 150 - Commercial Law I **Credits: 3**
- LEX 210 - Real Property I **Credits: 3**
- LEX 240 - Family Law **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**

**Other Major Requirements (36 credits)**

- CIS 110 - Introduction to Computers **Credits: 3**
- CJC 231 - Constitutional Law **Credits: 3**
- LEX 121 - Legal Research/Writing II **Credits: 3**
- LEX 141 - Civil Litigation II **Credits: 3**
- LEX 151 - Commercial Law II **Credits: 3**
- LEX 160 - Criminal Law & Procedure **Credits: 3**
- LEX 170 - Administrative Law **Credits: 2**
- LEX 211 - Real Property II **Credits: 3**
- LEX 260 - Bankruptcy and Collections **Credits: 3**
- LEX 270 - Law Office Mgt/Technology **Credits: 2**
- LEX 273 - NCCP Review Course **Credits: 2**
- LEX 280 - Ethics & Professionalism **Credits: 2**
- LEX 288 - Elder Law **Credits: 3**

- WBL 111P - Work-Based Learning I Paraleg  
**Credits: 1**

**Total Credits: 74**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- Natural Science/Math Electives **Credits: 3**
- LEX 110 - Intro to Paralegal Study **Credits: 2**
- LEX 140 - Civil Litigation I **Credits: 3**
- LEX 150 - Commercial Law I **Credits: 3**

#### Spring I

- LEX 120 - Legal Research/Writing I **Credits: 3**
- LEX 141 - Civil Litigation II **Credits: 3**
- LEX 151 - Commercial Law II **Credits: 3**
- LEX 160 - Criminal Law & Procedure **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### Summer I

- CJC 231 - Constitutional Law **Credits: 3**
- LEX 121 - Legal Research/Writing II **Credits: 3**
- LEX 170 - Administrative Law **Credits: 2**
- LEX 280 - Ethics & Professionalism **Credits: 2**

#### Fall II

- LEX 130 - Civil Injuries **Credits: 3**
- LEX 210 - Real Property I **Credits: 3**
- LEX 240 - Family Law **Credits: 3**
- LEX 260 - Bankruptcy and Collections **Credits: 3**
- LEX 270 - Law Office Mgt/Technology **Credits: 2**

- Humanities/Fine Arts Elective **Credits: 3**

#### Spring II

- Communications Electives **Credits: 3**
- LEX 211 - Real Property II **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**
- LEX 288 - Elder Law **Credits: 3**
- WBL 111P - Work-Based Learning I Paraleg  
**Credits: 1**

# A25450 - Simulation and Game Development

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Simulation & Game Development | A25450       |

## Program Description

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3D modeling, and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, testers, quality assurance analysts, engineers and administrators in the entertainment industry, health care, education, corporate training, and government organizations.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (16 Credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communication Electives (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 160 - Introduction to Film **Credits: 3**

Natural Science/Math Electives (Take 4 credits)

- MAT 152 - Statistical Methods I **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

Social/Behavioral Sciences Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**

#### Major Requirements (Take 30 credits)

- SGD 111 - Introduction to SGD **Credits: 3**
- SGD 112 - SGD Design I **Credits: 3**
- SGD 113 - SGD Programming I **Credits: 3**
- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 116 - SGD Graphic Design Tools **Credits: 3**
- SGD 162 - SGD 3D Animation I **Credits: 3**
- SGD 163 - SGD Documentation **Credits: 3**
- SGD 212 - SGD Design II **Credits: 3**
- SGD 213 - SGD Programming II **Credits: 3**
- SGD 289 - SGD Project **Credits: 3**

#### Other Major Requirements (Take 20 credits from each group + electives)

Group I (Take 8 credits)

- SGD 134 - SGD Quality Assurance **Credits: 3**
- SGD 174 - SGD Level Design I **Credits: 3**
- SGD 288 - SGD Portfolio Design **Credits: 2**

Group II (Take 3 credits)

- CSC 134 - C++ Programming **Credits: 3**
- SGD 164 - SGD Audio/Video **Credits: 3**

**Group III** (Take 3 credits)

- SGD 274 - SGD Level Design II **Credits: 3**
- SGD 285 - SGD Software Engineering **Credits: 3**

**Group IV** (Take 3 credits)

- SGD 168 - SGD Mobile Programming I **Credits: 3**
- SGD 214 - SGD 3D Modeling II **Credits: 3**

**Gaming Electives** (Take 3 credits)

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 114 - Architectural CAD **Credits: 2 and**
- ARC 114A - Architectural CAD Lab **Credits: 1**
- ARC 225 - Architectural BIM I **Credits: 2 and**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- BUS 115 - Business Law I **Credits: 3**
- CSC 151 - JAVA Programming **Credits: 3**
- FVP 240 - Introduction to Screenwriting **Credits: 3**
- GRD 151 - Computer Design Basics **Credits: 3**
- SGD 117 - Art for Games **Credits: 3**
- SGD 126 - SG Engine Design **Credits: 3**
- SGD 158 - SGD Business Management **Credits: 3**
- SGD 262 - SGD 3D Animation II **Credits: 3**
- SGD 274 - SGD Level Design II **Credits: 3**

**Total Credits: 66**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- SGD 111 - Introduction to SGD **Credits: 3**
- SGD 112 - SGD Design I **Credits: 3**

- Natural Science/Math Elective **Credits: 4**
- Communications Elective **Credits: 3**

#### Spring I

- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 162 - SGD 3D Animation I **Credits: 3**
- SGD 212 - SGD Design II **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### Summer I

- SGD 113 - SGD Programming I **Credits: 3**
- SGD 116 - SGD Graphic Design Tools **Credits: 3**
- SGD 174 - SGD Level Design I **Credits: 3**

#### Fall II

- SGD 164 - SGD Audio/Video **Credits: 3 or**
- CSC 134 - C++ Programming **Credits: 3**
- SGD 134 - SGD Quality Assurance **Credits: 3**
- SGD 213 - SGD Programming II **Credits: 3**
- SGD 163 - SGD Documentation **Credits: 3**
- SGD 274 - SGD Level Design II **Credits: 3 or**
- SGD 285 - SGD Software Engineering **Credits: 3**

#### Spring II

- SGD 288 - SGD Portfolio Design **Credits: 2**
- SGD 289 - SGD Project **Credits: 3**
- SGD 168 - SGD Mobile Programming I **Credits: 3 or**
- SGD 214 - SGD 3D Modeling II **Credits: 3**
- Gaming Elective **Credits: 3**

## A25590 - Information Technology

### Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | A25590       |

### Program 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.

### Degree

Associate in Applied Science

## A25590N - Information Technology - Networking

### Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | A25590N      |

### Program 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.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**

Math Electives (Take 3-4 credits)

- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**

Social/Behavioral Science Electives (Take 3 credits)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (18 credits)

- CIS 110 - Introduction to Computers **Credits: 3**
- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**
- CTI 120 - Network & Sec Foundation **Credits: 3**

- CTS 115 - Info Sys Business Concepts **Credits: 3**

#### Required Subject Area

Systems Security (Take 6 credits)

- NET 125 - Introduction to Networks **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

#### Other Major Requirements (Take 33 credits)

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- CCT 251 - Network Vulnerabilities II **Credits: 3**
- CET 130 - Operating System Prin **Credits: 3**
- CET 245 - Internet Servers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- CTS 288 - Professional Practices in IT **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- NET 225 - Enterprise Networking **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**

**Total Credits: 66-67**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- Math Elective **Credits: 3-4**
- CIS 110 - Introduction to Computers **Credits: 3**
- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**

- CTI 120 - Network & Sec Foundation **Credits: 3**

### Spring I

- CET 130 - Operating System Prin **Credits: 3**
- CTS 115 - Info Sys Business Concepts **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

### Summer I

- Communications Elective **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

### Fall II

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- CET 245 - Internet Servers **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CTS 288 - Professional Practices in IT **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**

### Spring II

- CCT 251 - Network Vulnerabilities II **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- NET 225 - Enterprise Networking **Credits: 3**

## A25590S - Information Technology - Software Development

### Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | A25590S      |

### Program 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.

### Degree

Associate in Applied Science



## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

##### English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

##### Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Math Electives (Take 3-4 credits)

- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**

##### Social/Behavioral Science Electives (Take 3 credits)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (18 credits)

- CIS 110 - Introduction to Computers **Credits: 3**
- CSC 151 - JAVA Programming **Credits: 3**
- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**

- CTI 120 - Network & Sec Foundation **Credits: 3**
- CTS 115 - Info Sys Business Concepts **Credits: 3**
- DBA 120 - Database Programming I **Credits: 3**

#### Other Major Requirements (32 credits)

##### Group I (Take 26 credits)

- CIS 115 - Intro to Prog & Logic **Credits: 3**
- CSC 120 - Computing Fundamentals I **Credits: 4**
- CSC 130 - Computing Fundamentals II **Credits: 4**
- CSC 227 - Cloud Application Development **Credits: 3**
- CSC 256 - Software Quality Assurance **Credits: 3**
- CTS 288 - Professional Practices in IT **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

##### Group II (Take 3 credits)

- CSC 174 - Server-Side Javascript **Credits: 3**
- DBA 210 - Database Administration **Credits: 3**

##### Group III (Take 3 credits)

- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CET 125 - Voice and Data Cabling **Credits: 3**
- CET 172 - Internet Technologies **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**
- CTS 240 - Project Management **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**
- DME 110 - Intro to Digital Media **Credits: 3**
- NET 110 - Networking Concepts **Credits: 3**
- WEB 111 - Intro to Web Graphics **Credits: 3**
- WEB 210 - Web Design **Credits: 3**

- WEB 213 - Internet Mkt & Analytics **Credits: 3**

**Total Credits: 65-66**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- Math Elective **Credits: 3-4**
- CIS 110 - Introduction to Computers **Credits: 3**
- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**
- CTI 120 - Network & Sec Foundation **Credits: 3**

#### Spring I

- CIS 115 - Intro to Prog & Logic **Credits: 3**
- CTS 115 - Info Sys Business Concepts **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### Summer I

- Humanities /Fine Arts Elective **Credits: 3**
- Communications Elective **Credits: 3**

#### Fall II

- CSC 120 - Computing Fundamentals I **Credits: 4**
- CSC 151 - JAVA Programming **Credits: 3**
- CSC 227 - Cloud Application Development **Credits: 3**
- CTS 288 - Professional Practices in IT **Credits: 3**
- DBA 120 - Database Programming I **Credits: 3**

#### Spring II

- CSC 130 - Computing Fundamentals II **Credits: 4**
- CSC 256 - Software Quality Assurance **Credits: 3**
- CSC 174 - Server-Side Javascript **Credits: 3**  
**OR**
- DBA 210 - Database Administration **Credits: 3**
- IT Elective **Credits: 3**

# A25590SA - Information Technology - Systems Administration

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | A25590SA     |

## Program 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.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 111 - Music Appreciation **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

Natural Sciences/Math Electives (Take 3-4 credits)

- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**

Social/Behavioral Sciences Electives (Take 3 credits)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (12 credits)

- CIS 110 - Introduction to Computers **Credits: 3**
- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**

- CTI 120 - Network & Sec Foundation **Credits: 3**
- CTS 115 - Info Sys Business Concepts **Credits: 3**

## **Required Subject Area (6 credits)**

### **System Security (Take 6 credits)**

- NET 125 - Introduction to Networks **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

## **Other Major Requirements (33 credits)**

- CET 130 - Operating System Prin **Credits: 3**
- CET 245 - Internet Servers **Credits: 3**
- CTI 240 - Virtualization Admin I **Credits: 3**
- CTI 241 - Virtualization Admin II **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- CTS 288 - Professional Practices in IT **Credits: 3**
- ELN 238 - Advanced LANs **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- TNE 255 - Network Servers **Credits: 3**

**Total Credits: 66-67**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- Natural Science/Math Elective **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**

- CTI 120 - Network & Sec Foundation **Credits: 3**

#### **Spring I**

- CET 130 - Operating System Prin **Credits: 3**
- CTS 115 - Info Sys Business Concepts **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### **Summer I**

- 
- NET 125 - Introduction to Networks **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- Communications Elective **Credits: 3**

#### **Fall II**

- CET 245 - Internet Servers **Credits: 3**
- CTI 240 - Virtualization Admin I **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CTS 288 - Professional Practices in IT **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- 

#### **Spring II**

- CTI 241 - Virtualization Admin II **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- ELN 238 - Advanced LANs **Credits: 3**
- TNE 255 - Network Servers **Credits: 3**

# A25710 - Artificial Intelligence

## Overview

### Department Title      Program Code

Artificial Intelligence      A25710

### Program Description

The Artificial Intelligence (AI) curriculum is designed to provide students with the knowledge and skills necessary for employment and growth in the AI profession.

Course work includes various subject areas related to AI fundamentals, machine learning, deep learning theory, and hands-on training in multiple AI domains for the purpose of creating and implementing artificial intelligence across a broad range of applications.

Graduates may qualify for entry-level AI positions such as AI engineer, AI project manager, AI researcher, AI consultant, AI architect, conversational AI specialist, AI automation engineer, AI software engineer, and machine learning specialist.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements

##### English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

##### Communication (Take 3 credits)

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

- COM 231 - Public Speaking **Credits: 3**

##### Humanities/Fine Arts (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Social/Behavioral Sciences (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

##### Math (Take 4 credits)

- MAT 171 - Precalculus Algebra **Credits: 4**

### Major Hours (12 Credits)

- CSC 113 - Artificial Intel. Fundamentals **Credits: 3**
- CSC 114 - Artificial Intelligence I **Credits: 3**
- CSC 115 - Machine Learning I **Credits: 3**
- CSC 121 - Python Programming **Credits: 3**

### Other Major Hours (38 Credits)

- ACA 122 - College Transfer **Credits: 1**
- CIS 110 - Introduction to Computers **Credits: 3**
- CCT 112 - Ethics & High Technology **Credits: 3**
- CSC 112 - Machine Learning Computation **Credits: 3**
- CSC 117 - Artificial Intel. Tools I **Credits: 3**
- CSC 128 - Chatbot Programming I **Credits: 3**

- CSC 161 - Deep Learning **Credits: 3**
- CSC 214 - Artificial Intelligence II **Credits: 3**
- CSC 215 - Machine Learning II **Credits: 3**
- CSC 217 - Artificial Intel. Tools II **Credits: 3**
- CSC 221 - Advanced Python Programming **Credits: 3**
- CSC 228 - Chatbot Programming II **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**

**Total Credits: 66**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers **Credits: 3**
- CSC 113 - Artificial Intelligence Fundamentals **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 152 - Statistical Methods **Credits: 4**
- Social/Behavioral Science Elective **Credits:3**

#### Spring I

- CCT 112 - Ethics in High Technology **Credits:3**
- CSC 112 - Machine Learning Computation **Credits:3**
- CSC 114 - Artificial Intelligence I **Credits: 3**
- CSC 121 - Python Programming **Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**

#### Summer I

- Communications Elective **Credits: 3**
- CSC 115 - Machine Learning I **Credits:3**
- Humanities/Fine Arts Elective **Credits: 3**

#### Fall II

- ACA 122 - College Transfer Success **Credits: 1**

- CSC 117 - Artificial Intelligence Tools I **Credits: 3**
- CSC 128 - Chatbot Programming I **Credits: 3**
- CSC 214 - Artificial Intelligence II **Credits: 3**
- CSC 221 - Advanced Python Programming **Credits:3**

#### Spring II

- CSC 161 - Deep Learning **Credits: 3**
- CSC 215 - Machine Learning II **Credits: 3**
- CSC 217 - Artificial Intelligence Tools II **Credits: 3**
- CSC 228 - Chatbot Programming II **Credits: 3**

# A25800 - Accounting and Finance

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Accounting & Finance | A25800       |

## Program 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.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15 - 16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits:**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 110 - Technology and Society **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- HUM 230 - Leadership Development **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

Natural Sciences/Math Electives (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

Social/Behavioral Sciences Electives (Take 3 credits)

- HIS 111 - World Civilizations I **Credits: 3**



- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

## **Major Requirements (23 credits)**

### **Required (Take 11 credits)**

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- ACC 121 - Prin of Managerial Accounting **Credits: 4**
- BUS 115 - Business Law I **Credits: 3**

### **Finance Applications (Take 3 credits)**

- BUS 225 - Business Finance **Credits: 3**

### **Computer Applications (Take 3 credits)**

- CIS 110 - Introduction to Computers **Credits: 3**

### **Spreadsheet Applications (Take 3 credits)**

- CTS 130 - Spreadsheet **Credits: 3**

### **Economics (Take 3 credits)**

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**

## **Concentration Requirements (14 credits)**

- ACC 129 - Individual Income Taxes **Credits: 3**
- ACC 130 - Business Income Taxes **Credits: 3**
- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 150 - Accounting Software Appl **Credits: 2**
- ACC 220 - Intermediate Accounting I **Credits: 4**

## **Other Major Requirements (12 credits)**

### **Required (Take 9 credits)**

- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 225 - Cost Accounting **Credits: 3**
- BUS 121 - Business Math **Credits: 3**

### **Electives (Take 3 credits)**

- ACC 180 - Practices in Bookkeeping **Credits: 3**
- ACC 221 - Intermediate Acct II **Credits: 4**
- ACC 267 - Fraud Examination **Credits: 3**
- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 121 - Data Visualization **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**
- BUS 135 - Principles of Supervision **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- CCT 121 - Computer Crime Invest. **Credits: 4**
- CTI 120 - Network & Sec Foundation **Credits: 3**
- CTS 115 - Info Sys Business Concepts **Credits: 3**
- CTS 240 - Project Management **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Experience **Credits: 3**
- OST 136 - Word Processing **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 121 - Work-Based Learning II **Credits: 1**
- WBL 131 - Work-Based Learning III **Credits: 1**

## **Total Credits: 64**

## Semester Sequence

- Accounting Elective **Credits: 3**

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BUS 121 - Business Math **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Spring I

- ACC 121 - Prin of Managerial Accounting **Credits: 4**
- BUS 115 - Business Law I **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- Math Elective **Credits: 3-4**

#### Summer I

- ACC 122 - Prin of Financial Acct II **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**
- Communications Electives **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### Fall II

- ACC 129 - Individual Income Taxes **Credits: 3**
- ACC 150 - Accounting Software Appl **Credits: 2**
- ACC 220 - Intermediate Accounting I **Credits: 4**
- BUS 225 - Business Finance **Credits: 3**
- ECO 151 - Survey of Economics **Credits: 3**

#### Spring II

- ACC 130 - Business Income Taxes **Credits: 3**
- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 221 - Intermediate Acct II **Credits: 4**
- ACC 225 - Cost Accounting **Credits: 3**

# A30100 - Graphic Design

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Graphic Design   | A30100       |

### Program 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.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

Communication Electives (Take 6 credits)

Group I (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Group II (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**

- ENG 112 - Writing/Research in the Disc **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

Natural Sciences/Math Electives (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

Social/Behavioral Sciences Electives (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (Take 24 credits)

- ART 121 - Two-Dimensional Design **Credits: 3**
- GRD 110 - Typography I **Credits: 3**
- GRD 142 - Graphic Design II **Credits: 4**
- GRD 151 - Computer Design Basics **Credits: 3**
- GRD 152 - Computer Design Tech I **Credits: 3**
- GRD 241 - Graphic Design III **Credits: 4**
- GRD 280 - Portfolio Design **Credits: 4**

#### Required Hours (Take 3 credits)

- ART 131 - Drawing I **Credits: 3**

#### Other Major Hours (Take 22 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- ART 122 - Three-Dimensional Design **Credits: 3**
- ART 132 - Drawing II **Credits: 3**
- ART 135 - Figure Drawing I **Credits: 3**

- ART 170 - The Business of Art **Credits: 3**
- ART 171 - Digital Design I **Credits: 3**
- ART 231 - Printmaking I **Credits: 3**
- ART 232 - Printmaking II **Credits: 3**
- ART 240 - Painting I **Credits: 3**
- ART 264 - Digital Photography I **Credits: 3**
- ART 265 - Digital Photography II **Credits: 3**
- ART 271 - Digital Design II **Credits: 3**
- ART 275 - Introduction to Graphic Design **Credits: 3**
- ART 276 - Interactive Media Design **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- CSC 120 - Computing Fundamentals I **Credits: 4**
- GRD 131 - Illustration I **Credits: 3**
- GRD 132 - Illustration II **Credits: 3**
- GRD 271 - Multimedia and Video I **Credits: 3**
- GRD 275 - Animation I **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 3**
- SGD 112 - SGD Design I **Credits: 3**
- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 162 - SGD 3D Animation I **Credits: 3**
- WEB 111 - Intro to Web Graphics **Credits: 3**
- WEB 151 - Mobile Application Dev I **Credits: 3**
- WEB 213 - Internet Mkt & Analytics **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**

**Total Credits: 64-65**

## Semester Sequence

### Semester Sequence

#### Fall I

- ART 131 - Drawing I **Credits: 3**
- ART 121 - Two-Dimensional Design **Credits: 3**
- GRD 110 - Typography I **Credits: 3**
- GRD 151 - Computer Design Basics **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### Spring I

- ENG 111 - Writing and Inquiry **Credits: 3**
- GRD 142 - Graphic Design II **Credits: 4**
- GRD 152 - Computer Design Tech I **Credits: 3**
- Natural Sciences/Math Elective **Credits: 3/4**
- Major Elective **Credits: 3**

#### Summer I

- ENG 112 - Writing/Research in the Disc **Credits: 3 OR**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- Social/Behavioral Sciences Elective **Credits: 3**

#### Fall II

- GRD 241 - Graphic Design III **Credits: 4**
- Other Major Hours Elective **Credits: 12**

#### Spring II

- GRD 280 - Portfolio Design **Credits: 4**
- Other Major Hours Elective **Credits: 12**

# A30140 - Film and Video Production Technology

## Overview

### Department Title      Program Code

Film & Video Production      A30140  
Tech

### Program Description

The Film and Video Production Technology curriculum prepares students for entry-level employment in production support and selected technical areas of film, video, and associated media production.

Instruction provides training for entry-level crew and/or production and post-production assistants in many moving image media forms.

The first year content includes exposure to the entire production process. Students are taught by industry professionals who provide extensive hands-on instruction. In the second year, students receive professional training by performing in various crew positions on actual production projects.

Graduates may find employment as entry-level crew and/or production assistants in feature and short films, commercials, and industrial, educational, and documentary productions. Other opportunities include entry-level employment in pre-production and post-production areas for film and video.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Communications (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 160 - Introduction to Film **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Natural Science/Math (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

#### Social/Behavioral Science Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### Major Requirements (34 credits)

- FVP 111 - Intro. to Film and Video **Credits: 3**
- FVP 112 - Art Dept Operations I **Credits: 3**
- FVP 113 - Grip & Electrical I **Credits: 3**
- FVP 114 - Camera & Lighting I **Credits: 3**
- FVP 115 - Camera & Lighting II **Credits: 3**
- FVP 116 - Sound Operations **Credits: 3**
- FVP 120 - Art Dept. Operations II **Credits: 3**
- FVP 130 - Grip and Electrical II **Credits: 3**
- FVP 212 - Production Techniques I **Credits: 5**
- FVP 213 - Production Techniques II **Credits: 5**

### Other Major Requirements (21 credits)

- CIS 110 - Introduction to Computers **Credits: 3**
- FVP 220 - Editing I **Credits: 3**
- FVP 240 - Introduction to Screenwriting **Credits: 3**
- FVP 250 - Production Specialties I **Credits: 3**

### Film and Video Electives (Take 9 credits)

- ACA 111 - College Student Success **Credits: 1**
- DEA 111 - Introduction to DEAT **Credits: 3**
- FVP 117 - Make-Up & Wardrobe **Credits: 3**
- FVP 215 - Production Management **Credits: 3**

- FVP 221 - Editing II **Credits: 3**
- FVP 223 - Postproduct. Sound Design **Credits: 3**
- FVP 227 - Multimedia Production **Credits: 3**
- FVP 251 - Product. Specialities II **Credits: 3**
- WBL 111V - Work-Based Learning I **Credits: 1**
- WBL 115V - Work-Based Learning Seminar I **Credits: 1**

**Total Credits: 70-71**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- FVP 111 - Intro. to Film and Video **Credits: 3**
- FVP 112 - Art Dept Operations I **Credits: 3**
- FVP 114 - Camera & Lighting I **Credits: 3**
- FVP 220 - Editing I **Credits: 3**

#### Spring I

- FVP 113 - Grip & Electrical I **Credits: 3**
- FVP 115 - Camera & Lighting II **Credits: 3**
- FVP 116 - Sound Operations **Credits: 3**
- FVP 120 - Art Dept. Operations II **Credits: 3**
- Humanities/Fine Arts Elective **Credits / Units: 3**

#### Summer I

- FVP 212 - Production Techniques I **Credits: 5**
- Film & Video Elective **Credits: 3**

#### Fall II

- Communications Elective **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- FVP 130 - Grip and Electrical II **Credits: 3**

- FVP 240 - Introduction to Screenwriting  
**Credits: 3**
- Film & Video Elective **Credits: 1-3**

## Spring II

- FVP 250 - Production Specialties I **Credits: 3**
- Natural Science/Math Elective **Credits: 3-4**
- Film & Video Elective **Credits: 1-3**
- Social/Behavioral Science Elective **Credits: 3**

## Summer II

- FVP 213 - Production Techniques II **Credits: 5**

# A30220 - Interior Design

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Interior Design  | A30220       |

## Program Description

The Interior Design curriculum is designed to prepare students for a variety of job opportunities in the field of both residential and non-residential interior design.

The focus of the studies is technical knowledge, professional practices, and aesthetic principles.

Curriculum content includes residential and non-residential interior design, architectural drafting, computer-aided design, and universal design. Also included are basic design, history of interiors and furnishings, color theory, products, business practices, graphic presentations, and general education courses.

Graduates should qualify for a variety of jobs including residential and commercial interior design, set design, showroom design, and sales positions for furniture, textiles and accessories, and all businesses dealing with interiors.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements ( 15 credits)

Communications Electives (Take 6 credits)

Group I (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Group II (Take 3 credits)

- COM 110 - Introduction to Communication  
**Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**



- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### **Humanities/Fine Arts Electives (Take 3 credits)**

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### **Natural Science/Math Electives (Take 3-4 credits)**

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

#### **Social/Behavioral Science Electives (Take 3 credits)**

- ANT 210 - General Anthropology **Credits: 3**
- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### **Major Requirements (27 credits)**

- DES 125 - Visual Presentation I **Credits: 2**
- DES 135 - Prin & Elem of Design I **Credits: 4**
- DES 210 - Professional Practices/Int Des **Credits: 2**

- DES 220 - Interior Design Fundamentals **Credits: 3**
- DES 230 - Residential Design I **Credits: 3**
- DES 235 - Products **Credits: 3**
- DES 240 - Commercial/Contract Design I **Credits: 3**

#### **Beginning Drafting**

- DES 110 - Architectural Graphics **Credits: 2**

#### **History of Int & Furnish**

- DES 256 - History of Interiors & Furn II **Credits: 3**

#### **CAD for Interior Design**

- DES 120 - CAD for Interior Design **Credits: 2**

#### **Other Major Requirements (33 credits)**

- BUS 110 - Introduction to Business **Credits: 3**
- DES 111 - Creative Problem Solving **Credits: 2**
- DES 112 - Bldg/Construc Sys **Credits: 3**
- DES 130 - Digital App/Interior Design **Credits: 3**
- DES 136 - Prin & Elem of Design II **Credits: 4**
- DES 225 - Textiles for Interiors **Credits: 3**
- DES 241 - Comm/Contract Design II **Credits: 3**
- DES 242 - Kitchen/Bath Design **Credits: 3**
- DES 265 - Lighting/Interior Design **Credits: 2**
- DES 285 - Capstone/Interior Design **Credits: 4**

#### **Interior Design Electives (Take 3 credits)**

- CIS 110 - Introduction to Computers **Credits: 3**
- DES 238 - Sustainable Interiors **Credits: 3**
- DES 243 - Advanced Kitchen/Bath Design **Credits: 3**
- DES 255 - History of Interiors & Furn I **Credits: 3**
- DES 260 - Materials Calc/Int Design **Credits: 3**

## Other Requirements

- WBL 111 - Work-Based Learning I **Credits: 1**

**Total Credits: 76**

## Semester Sequence

### Semester Sequence

#### Fall I

- ART 111 - Art Appreciation **Credits: 3**
- DES 110 - Architectural Graphics **Credits: 2**
- DES 125 - Visual Presentation I **Credits: 2**
- DES 135 - Prin & Elem of Design I **Credits: 4**
- DES 235 - Products **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Spring I

- DES 112 - Bldg/Construc Sys **Credits: 3**
- DES 120 - CAD for Interior Design **Credits: 2**
- DES 130 - Digital App/Interior Design **Credits: 3**
- DES 220 - Interior Design Fundamentals **Credits: 3**
- DES 242 - Kitchen/Bath Design **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Summer I

- DES 136 - Prin & Elem of Design II **Credits: 4**
- DES 210 - Professional Practices/Int Des **Credits: 2**
- Interior Design Elective **Credits: 3**

#### Fall II

- BUS 110 - Introduction to Business **Credits: 3**
- DES 111 - Creative Problem Solving **Credits: 2**
- DES 225 - Textiles for Interiors **Credits: 3**
- DES 230 - Residential Design I **Credits: 3**

- DES 240 - Commercial/Contract Design I **Credits: 3**

- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Spring II

- DES 241 - Comm/Contract Design II **Credits: 3**
- DES 256 - History of Interiors & Furn II **Credits: 3**
- DES 265 - Lighting/Interior Design **Credits: 2**
- DES 285 - Capstone/Interior Design **Credits: 4**
- WBL 111 - Work-Based Learning I **Credits: 1**
- Social/Behavioral Science Elective **Credits: 3**

# A35130 - Electrical Systems Technology

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Electrical Systems Tech | A35130       |

### Program 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.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

**Communications Electives** (Take 2 groups; 6 credits)

**Group I** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Group II** (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Comm **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Science/Math Electives** (Take 3-4 credits)

- MAT-110 Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Electives** (Take 3 credits)

- ECO-151 Survey of Economics **Credits: 3**
- ECO-251 Prin of Microeconomics **Credits: 3**
- ECO-252 Prin of Macroeconomics **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL-120 American Government **Credits: 3**
- PSY-118 Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (16 credits)

- ELC 113 - Residential Wiring **Credits: 4**

**Motor Controls**

- ELC 117 - Motors and Controls **Credits: 4**

**DC/AC**

- ELC 112 - DC/AC Electricity **Credits: 5**

### Automated Controls

- ELC 128 - Intro to PLC **Credits: 3**

### Concentration Requirements (12 credits)

- ELC 115 - Industrial Wiring **Credits: 4**
- ELC 118 - National Electrical Code **Credits: 2**
- ELC 220 - Photovoltaic Sys Tech **Credits: 3**
- ELC 221 - Adv PV Sys Designs **Credits: 3**

### Other Major Requirements (25 credits)

- CIS 111 - Basic PC Literacy **Credits: 2**
- ELC 114 - Commercial Wiring **Credits: 4**
- ELC 119 - NEC Calculations **Credits: 2**
- ELC 121 - Electrical Estimating **Credits: 2**
- ELC 125 - Diagrams and Schematics **Credits: 2**
- ELC 213 - Instrumentation **Credits: 4**
- ELC 228 - PLC Applications **Credits: 4**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**
- ISC 112 - Industrial Safety **Credits: 2**

**Total Credits: 68-69**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 111 - Basic PC Literacy **Credits: 2**
- ELC 112 - DC/AC Electricity **Credits: 5**
- ELC 113 - Residential Wiring **Credits: 4**
- ISC 112 - Industrial Safety **Credits: 2**
- Natural Science/Math Elective **Credits: 3-4**  
(MAT-121 suggested)

#### Spring I

- ELC 114 - Commercial Wiring **Credits: 4**
- ELC 117 - Motors and Controls **Credits: 4**
- ELC 118 - National Electrical Code **Credits: 2**
- ELC 125 - Diagrams and Schematics **Credits: 2**

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Summer I

- ELC 115 - Industrial Wiring **Credits: 4**
- ELC 119 - NEC Calculations **Credits: 2**

#### Fall II

- ELC 121 - Electrical Estimating **Credits: 2**
- ELC 128 - Intro to PLC **Credits: 3**
- ELC 220 - Photovoltaic Sys Tech **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### Spring II

- ELC 213 - Instrumentation **Credits: 4**
- ELC 221 - Adv PV Sys Designs **Credits: 3**
- ELC 228 - PLC Applications **Credits: 4**
- Social/Behavioral Science Elective **Credits: 3**

# A35190 - Construction Management Technology

## Overview

### Department Title      Program Code

Construction Management A35190

Tech

### Program 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.

Construction Management Technology: A program that prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. Includes instruction in site safety, personnel supervision, labor relations, diversity training, construction documentation, scheduling, resource and cost control, bid strategies, rework prevention, construction insurance and bonding, accident management and investigation, applicable law and regulations, and communication skills.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15 credits)

**Communications Electives** (Take 6 credits)

**Group I** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Group II** (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**

**Math** (Take 3 credits)

- MAT 121 - Algebra/Trigonometry I **Credits: 3**

**Social/Behavioral Science Electives** (Take 3 credits)

- ANT 210 - General Anthropology **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (28 credits)

**Technical Core** (Take 12 credits)

- BPR 130 - Print Reading-Construction **Credits: 3**
- CMT 120 - Codes and Inspections **Credits: 3**
- CST 241 - Planning/Estimating I **Credits: 3**
- SST 140 - Green Bldg & Design Concepts **Credits: 3**

### **Construction Management Tech (Take 16 credits)**

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- CMT 112 - Construction Mgt I **Credits: 6**
- CMT 210 - Construction Management Fund **Credits: 3**
- CMT 212 - Total Safety Performance **Credits: 3**

### **Other Major Requirements (28 credits)**

#### **Required (Take 22 credits)**

- ARC 225 - Architectural BIM I **Credits: 2 and**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- CIS 111 - Basic PC Literacy **Credits: 2**
- CMT 214 - Planning and Scheduling **Credits: 3**
- CST 111 - Construction I **Credits: 4**
- CST 112 - Construction II **Credits: 4**
- CST 150 - Building Science **Credits: 3**
- CST 238 - Weatherization **Credits: 3**

#### **Construction Management Electives (Take 6 credits)**

- ALT 120 - Renewable Energy Tech **Credits: 3**
- BUS 240 - Business Ethics **Credits: 3**
- CMT 218 - Human Relations Issues **Credits: 3**
- PTE 110 - Pathway to Employ-Construction **Credits: 3**
- SST 120 - Energy Use Analysis **Credits: 3**
- SST 130 - Modeling Renewable Energy **Credits: 3**

**Total Credits: 71**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- BPR 130 - Print Reading-Construction **Credits: 3**

- CMT 210 - Construction Management Fund **Credits: 3**
- CST 111 - Construction I **Credits: 4**
- CST 150 - Building Science **Credits: 3**
- SST 140 - Green Bldg & Design Concepts **Credits: 3**

#### **Spring I**

- CIS 111 - Basic PC Literacy **Credits: 2**
- CST 112 - Construction II **Credits: 4**
- CMT 212 - Total Safety Performance **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**

#### **Summer I**

- ARC 225 - Architectural BIM I **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- CMT 120 - Codes and Inspections **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### **Fall II**

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- CMT 214 - Planning and Scheduling **Credits: 3**
- CST 241 - Planning/Estimating I **Credits: 3**
- Social/Behavior Science Elective **Credits: 3**
- Construction Management Elective **Credits: 3**

#### **Spring II**

- Communications Elective **Credits / Units: 3**
- CMT 112 - Construction Mgt I **Credits: 6**
- CST 238 - Weatherization **Credits: 3**
- Construction Management Elective **Credits: 3**

# A40100 - Architectural Technology

## Overview

### Department Title      Program Code

Architectural Technology    A40100

### Program 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.

Architectural Technology: A program that prepares individuals to assist architects, engineers, and construction professionals in developing plans and related documentation for residential and commercial projects in both the private and public sectors. Includes instruction in architectural drafting, computer-assisted drafting, construction materials and methods, environmental systems, codes and standards, structural principles, cost estimation, planning, graphics, and presentation.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

**Communications Electives** (Take 6 credits)

**Group I** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Group II** (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Math Electives** (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Electives** (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**



- SOC 210 - Introduction to Sociology **Credits: 3**

## Major Requirements (29 credits)

### Technical Core (Take 12 credits)

- ARC 112 - Constr Matls & Methods **Credits: 4**
- ARC 132 - Specifications & Contracts **Credits: 2**
- CST 241 - Planning/Estimating I **Credits: 3**
- SST 140 - Green Bldg & Design Concepts **Credits: 3**

### Architectural Technology (Take 17 credits)

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 113 - Residential Arch Tech **Credits: 3**
- ARC 211 - Light Constr Technology **Credits: 3**
- ARC 213 - Design Project **Credits: 4**
- ARC 230 - Environmental Systems **Credits: 4**

## Other Major Requirements (24 credits)

- ARC 114 - Architectural CAD **Credits: 2 and**
- ARC 114A - Architectural CAD Lab **Credits: 1**
- ARC 220 - Adv Architect CAD **Credits: 2**
- ARC 225 - Architectural BIM I **Credits: 2 and**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- ARC 226 - Architectural BIM II **Credits: 2 and**
- ARC 226A - Architectural BIM II Lab **Credits: 1**
- ARC 231 - Arch Presentations **Credits: 4**
- ARC 235 - Architectural Portfolio **Credits: 3**
- ARC 250 - Survey of Architecture **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**

**Total Credits: 68-69**

## Semester Sequence

### Semester Sequence

#### Fall I

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 114 - Architectural CAD **Credits: 2**
- ARC 114A - Architectural CAD Lab **Credits: 1**
- CIS 110 - Introduction to Computers **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- ARC 250 - Survey of Architecture **Credits: 3**

#### Spring I

- ARC 112 - Constr Matls & Methods **Credits: 4**
- ARC 220 - Adv Architect CAD **Credits: 2**
- ARC 225 - Architectural BIM I **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**

#### Summer I

- ARC 230 - Environmental Systems **Credits: 4**
- ARC 231 - Arch Presentations **Credits: 4**
- Communications Elective **Credits: 3**

#### Fall II

- ARC 113 - Residential Arch Tech **Credits: 3**
- ARC 132 - Specifications & Contracts **Credits: 2**
- ARC 211 - Light Constr Technology **Credits: 3**
- ARC 226 - Architectural BIM II **Credits: 2 and**
- ARC 226A - Architectural BIM II Lab **Credits: 1**
- Humanities /Fine Arts Elective **Credits: 3**

#### Spring II

- ARC 213 - Design Project **Credits: 4**
- ARC 235 - Architectural Portfolio **Credits: 3**
- CST 241 - Planning/Estimating I **Credits: 3**

- SST 140 - Green Bldg & Design Concepts  
**Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

## A40200 - Electronics Engineering Technology

### Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Electronics Engineering Tech | A40200       |

### Program 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.

### Degree

Associate in Applied Science

### Program of Study

#### Program Requirements

#### General Education Requirements (15-16 credits)

Communications Electives (Take 6 credits)

**Group I (Take 3 credits)**

- ENG 111 - Writing and Inquiry **Credits: 3**

**Group II (Take 3 credits)**

- ENG 114 - Prof Research & Reporting **Credits: 3**
- COM 120- Intro Interpersonal Com **Credits: 3**

**Humanities/Fine Arts Electives (Take 3 credits)**

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Science/Math Electives (Take 3-4 credits)**

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Electives (Take 3 credits)**

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Major Requirements (27 credits)**

**Technical Core (Take 12 credits)**

- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 131 - Analog Electronics I **Credits: 4**

- ELN 133 - Digital Electronics **Credits: 4**

**Electronics Engineering Tech (Take 15 credits)**

- ELC 128 - Intro to PLC **Credits: 3**
- ELC 133 - Circuit Analysis II **Credits: 4**
- ELN 132 - Analog Electronics II **Credits: 4**
- ELN 234 - Communication Systems **Credits: 4**

**Other Major Requirements (24 credits)**

**Required (Take 21 credits)**

- CIS 110 - Introduction to Computers **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**
- ELN 152 - Fabrication Techniques **Credits: 2**
- ELN 231 - Industrial Controls **Credits: 3**
- ELN 236 - Fiber Optics and Lasers **Credits: 4**
- ELN 275 - Troubleshooting **Credits: 2**
- PHY 131 - Physics-Mechanics **Credits: 4**

**Electives (Take 3 credits)**

- ATR 112 - Intro to Automation **Credits: 3**
- CET 125 - Voice and Data Cabling **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- ELC 111 - Intro to Electricity **Credits: 3**
- ELC 117 - Motors and Controls **Credits: 4**
- UAS 110 - Intro to UAS Operations **Credits: 3**
- UAS 111 - Unmanned Aircraft Systems **Credits: 3**
- UAS 115 - Small UAS Certification **Credits: 2**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 121 - Work-Based Learning II **Credits: 1**
- WBL 131 - Work-Based Learning III **Credits: 1**

**Total Credits: 66-67**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers **Credits: 3**
- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 152 - Fabrication Techniques **Credits: 2**
- ENG 111 - Writing and Inquiry **Credits: 3**
- Math Electives (MAT-121 suggested) **Credits: 3**

#### Spring I

- CTS 120 - Hardware/Software Support **Credits: 3**
- ELC 133 - Circuit Analysis II **Credits: 4**
- ELN 131 - Analog Electronics I **Credits: 4**
- ELN 133 - Digital Electronics **Credits: 4**

#### Summer I

- ELN 132 - Analog Electronics II **Credits: 4**
- ELN 231 - Industrial Controls **Credits: 3**
- PHY 131 - Physics-Mechanics **Credits: 4**

#### Fall II

- ELC 128 - Intro to PLC **Credits: 3**
- ELN 234 - Communication Systems **Credits: 4**
- Humanities/Fine Arts Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### Spring II

- ELN 236 - Fiber Optics and Lasers **Credits: 4**
- ELN 275 - Troubleshooting **Credits: 2**
- Electronics Engineering Technology Elective **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

## A40320 - Mechanical Engineering Technology

### Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Mechanical Engineering Tech | A40320       |

### Program 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.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

##### Communications Electives (Take 6 credits)

###### Group I (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

###### Group II (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Natural Sciences/Math Electives (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

##### Social/Behavioral Sciences Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**

- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (22 credits)

##### Engineering Fundamentals (6 credits)

- EGR 251 - Statics **Credits: 3**
- EGR 252 - Strength of Materials **Credits: 3**

##### Two-Dimensional Drawing (3 credits)

- DFT 151 - CAD I **Credits: 3**

##### Three-Dimensional Drawing (3 credits)

- DFT 154 - Intro Solid Modeling **Credits: 3**

##### Fluid Mechanics (3 credits)

- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

##### Manufacturing (3 credits)

- MEC 145 - Mfg Materials I **Credits: 3**

##### Physics (4 credits)

- PHY 131 - Physics-Mechanics **Credits: 4**

#### Other Major Requirements (29 credits)

##### Required (26 credits)

- DDF 211 - Design Process I **Credits: 4**
- DDF 212 - Design Process II **Credits: 4**
- DFT 254 - Intermed Solid Model/Render **Credits: 3**
- ELC 111 - Intro to Electricity **Credits: 3**
- MEC 111 - Machine Processes I **Credits: 3**
- MEC 130 - Mechanisms **Credits: 3**
- TDP 110 - Introduction to 3D Printing **Credits: 3**
- TDP 140 - Precision 3D Printing **Credits: 3**

### **Mechanical Engineering Electives (Take 3 credits)**

- CIS 110 - Introduction to Computers **Credits: 3**
- DFT 111 - Technical Drafting I **Credits: 2 and**
- DFT 111A - Technical Drafting I Lab **Credits: 1**
- DFT 112 - Technical Drafting II **Credits: 2 and**
- DFT 112A - Technical Drafting II Lab **Credits: 1**
- DFT 231 - Jig & Fixture Design **Credits: 2**
- ELC 113 - Residential Wiring **Credits: 4**
- ISC 112 - Industrial Safety **Credits: 2**
- WLD 112 - Basic Welding Processes **Credits: 2**

**Total Credits: 66**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- DFT 151 - CAD I **Credits: 3**
- MEC 111 - Machine Processes I **Credits: 3**

#### **Spring I**

- ENG 114 - Prof Research & Reporting **Credits: 3**
- DFT 154 - Intro Solid Modeling **Credits: 3**
- ELC 111 - Intro to Electricity **Credits: 3**
- MEC 145 - Mfg Materials I **Credits: 3**
- PHY 131 - Physics-Mechanics **Credits: 4**

#### **Summer I**

- DFT 254 - Intermed Solid Model/Render **Credits: 3**
- MEC 130 - Mechanisms **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### **Fall II**

- DDF 211 - Design Process I **Credits: 4**
- EGR 251 - Statics **Credits: 3**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**
- TDP 110 - Introduction to 3D Printing **Credits: 3**

#### **Spring II**

- DDF 212 - Design Process II **Credits: 4**
- TDP 140 - Precision 3D Printing **Credits: 3**
- EGR 252 - Strength of Materials **Credits: 3**
- Mechanical Engineering Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

# A40350 - Mechatronics Engineering Technology

## Overview

### Department Title      Program Code

Mechatronics Engineering    A40350  
Tech

### Program 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.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

##### Communications Electives (Take 6 credits)

##### Group I (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

##### Group II (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Natural Sciences/Math Electives (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

##### Social/Behavioral Sciences Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**



## Major Requirements (36 credits)

### Required (7 credits)

- ATR 112 - Intro to Automation **Credits: 3**
- ELC 213 - Instrumentation **Credits: 4**

### Computer Applications (3 credits)

- CIS 110 - Introduction to Computers **Credits: 3**

### Safety (2 credits)

- ISC 112 - Industrial Safety **Credits: 2**

### Basic Electricity (4 credits)

- ELC 131 - Circuit Analysis I **Credits: 4**

### Drawing (3 credits)

- DFT 151 - CAD I **Credits: 3**

### Fluid Mechanics (3 credits)

- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

### Mechanical Drives (3 credits)

- MEC 130 - Mechanisms **Credits: 3**

### Machines (4 credits)

- ELC 117 - Motors and Controls **Credits: 4**

### Programmable Logic Controls (3 credits)

- ELC 128 - Intro to PLC **Credits: 3**

### Physics (4 credits)

- PHY 131 - Physics-Mechanics **Credits: 4**

## Other Major Requirements (20 credits)

- ATR 280 - Robotic Fundamentals **Credits: 4**
- ELC 115 - Industrial Wiring **Credits: 4**
- ELC 125 - Diagrams and Schematics **Credits: 2**
- ELN 231 - Industrial Controls **Credits: 3**
- MEC 111 - Machine Processes I **Credits: 3**
- MNT 110 - Intro to Maint Procedures **Credits: 2**

- WLD 112 - Basic Welding Processes **Credits: 2**

## Total Credits: 71-72

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers **Credits: 3**
- ELC 125 - Diagrams and Schematics **Credits: 2**
- ELC 131 - Circuit Analysis I **Credits: 4**
- ENG 111 - Writing and Inquiry **Credits: 3**
- ISC 112 - Industrial Safety **Credits: 2**
- MNT 110 - Intro to Maint Procedures **Credits: 2**

#### Spring I

- ELC 117 - Motors and Controls **Credits: 4**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**
- MEC 130 - Mechanisms **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**

#### Summer I

- DFT 151 - CAD I **Credits: 3**
- ELC 115 - Industrial Wiring **Credits: 4**
- MEC 111 - Machine Processes I **Credits: 3**

#### Fall II

- ATR 112 - Intro to Automation **Credits: 3**
- ELC 128 - Intro to PLC **Credits: 3**
- ELC 213 - Instrumentation **Credits: 4**
- PSY 150 - General Psychology **Credits: 3**
- ATR 280 - Robotic Fundamentals **Credits: 4**

#### Spring II

- ELN 231 - Industrial Controls **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

- HUM 115 - Critical Thinking **Credits: 3**
- PHY 131 - Physics-Mechanics **Credits: 4**
- WLD 112 - Basic Welding Processes **Credits: 2**

## A40420 - Geomatics Technology

### Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Geomatics Technology | A40420       |

### Program 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, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

Geomatics Technology: A course of study that prepares students to use mathematical and scientific principles for the delineation, determination, planning and positioning of land tracts, boundaries, contours and features applying principles of route surveying, construction surveying, photogrammetry, mapping, global positioning systems, geographical information systems, and other kinds of property description and measurement to create related maps, charts and reports. Includes instruction in applied geodesy, computer graphics, photointerpretation, plane and geodetic surveying, mensuration, traversing, survey equipment operation and maintenance, instrument calibration, and basic cartography. Graduates should qualify for jobs as survey party chief, instrument person, surveying technician, highway surveyor, mapper, GPS technician, and CAD operator. Graduates will be prepared to pursue the requirements necessary to become a Registered Land Surveyor in North Carolina.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (18-19 credits)

##### English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

##### Communication Electives (Take 6 credits)

- ENG 114 - Prof Research & Reporting **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- HUM 230 - Leadership Development **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Natural Sciences/Math Electives (Take 3-4 credits)

- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 271 - Calculus I **Credits: 4**

##### Social/Behavioral Sciences Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 215 - Group Processes **Credits: 3**

### Major Requirements (35 credits)

#### Required Courses (Take 7 credits)

- CEG 211 - Hydrology & Erosion Control **Credits: 3**
- SRV 110 - Surveying I **Credits: 4**

#### Intro to Engineering (Take 3 credits)

- EGR 115 - Intro to Technology **Credits: 3**

#### Computer Aided Drafting (Take 3 credits)

- DFT 151 - CAD I **Credits: 3**
- EGR 120 - Eng and Design Graphics **Credits: 3**

#### Spatial Data Col/Mapping (Take 4 credits)

- CEG 111 - Intro to Gis and Gnss **Credits: 4**

#### Geomatics Technology (Take 18 credits)

- CEG 230 - Subdivision Planning & Design **Credits: 3**
- SRV 111 - Surveying II **Credits: 4**
- SRV 210 - Surveying III **Credits: 4**
- SRV 220 - Surveying Law **Credits: 3**
- SRV 240 - Topo/Site Surveying **Credits: 4**

### Other Major Requirements (14 credits)

#### Program Requirements (Take 5 credits)

- CIV-125 Civil/Surveying CAD **Credits: 3**
- SRV-260 Field & Office Practices **Credits: 2**

#### Additional Electives (Take 9 credits)

- BPR 130 - Print Reading-Construction **Credits: 3**
- EGR 110 - Intro to Engineering Tech **Credits: 2**
- EGR 150 - Intro to Engineering **Credits: 2**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 175 - Precalculus **Credits: 5**
- MAT-271 - Calculus I **Credits: 4**
- MAT-272 - Calculus II **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- PHY-251 General Physics I **Credits: 4**
- PHY-252 General Physics II **Credits: 4**
- SRV-250 Advanced Surveying **Credits: 4**
- SST 140 - Green Bldg & Design Concepts **Credits: 3**
- UAS-110 Intro to UAS Operations **Credits: 3**
- UAS-111 Unmanned Aircraft Systems **Credits 3**
- UAS-115 Small UAS Certification **Credits 2**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 112 - Work-Based Learning I **Credits: 2**
- WBL 113 - Work-Based Learning I **Credits: 3**
- WBL 121 - Work-Based Learning II **Credits: 1**
- WBL 131 - Work-Based Learning III **Credits: 1**

**Total Credits: 67-68**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- EGR 115 - Intro to Technology **Credits: 3**
- EGR 120 - Eng and Design Graphics **Credits: 3**  
*or*
- DFT 151 - CAD I **Credits: 3**
- Math Elective **Credits: 3- 4**
- SRV 110 - Surveying I **Credits: 4**

#### Spring I

- Communications Elective **Credits: 3**
- CEG 111 - Intro to Gis and Gnss **Credits: 4**
- SRV 111 - Surveying II **Credits: 4**
- SRV 220 - Surveying Law **Credits: 3**

#### Summer

- Humanities/Fine Arts Elective **Credits: 3**
- SRV-260 Field & Office Practices **Credits: 2**
- SRV 210 - Surveying III **Credits: 4**

#### Fall II

- CEG 211 - Hydrology & Erosion Control **Credits: 3**
- Geomatics Elective **Credits: 3-4**
- SRV 240 - Topo/Site Surveying **Credits: 4**
- CIV-125 Civil/Surveying CAD **Credits: 3**

#### Spring II

- CEG 230 - Subdivision Planning & Design **Credits: 3**
- Geomatics Elective **Credits: 5-6**
- Social/Behavioral Science Elective **Credits: 3**

# A45110 - Associate Degree Nursing

## Overview

### Department Title    Program Code

Associate Degree Nursing    A45110

### Program 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.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (Take 20 credits)

English (Take 6 credits)

#### Group I (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Group II (Take 3 credits)

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Natural Science (Take 8 credits)

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

#### Social/Behavioral Science (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**

### Major Requirements (43 credits)

#### Required

- NUR 111 - Intro to Health Concepts **Credits: 8**
- NUR 112 - Health-Illness Concepts **Credits: 5**
- NUR 113 - Family Health Concepts **Credits: 5**
- NUR 114 - Holistic Health Concepts **Credits: 5**
- NUR 211 - Health Care Concepts **Credits: 5**
- NUR 212 - Health System Concepts **Credits: 5**
- NUR 213 - Complex Health Concepts **Credits: 10**

## Other Major Requirements (6 credits)

- BIO 175 - General Microbiology **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**

## Total Credits: 69

*Students must achieve a "C" or higher in each course in the curriculum in order to progress semester by semester and to graduate.*

## Semester Sequence

### Semester Sequence

#### FALL START

##### Fall I

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- NUR 111 - Intro to Health Concepts **Credits: 8**
- PSY 150 - General Psychology **Credits: 3**

##### Spring I

- BIO 169 - Anatomy and Physiology II **Credits: 4**
- NUR 112 - Health-Illness Concepts **Credits: 5**
- NUR 114 - Holistic Health Concepts **Credits: 5**
- PSY 241 - Developmental Psych **Credits: 3**

##### Summer I

- NUR 113 - Family Health Concepts **Credits: 5**

##### Fall II

- BIO 175 - General Microbiology **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- NUR 212 - Health System Concepts **Credits: 5**
- NUR 211 - Health Care Concepts **Credits: 5**

##### Spring II

- ENG 112 - Writing/Research in the Disc **Credits: 3 or**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- NUR 213 - Complex Health Concepts **Credits: 10**

- Humanities/Fine Arts Elective **Credits / Units: 3**

## SPRING START

### Spring I

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- NUR 111 - Intro to Health Concepts **Credits: 8**
- PSY 150 - General Psychology **Credits: 3**

### Summer I

- NUR 112 - Health-Illness Concepts **Credits: 5**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

### Fall I

- NUR 113 - Family Health Concepts **Credits: 5**
- NUR 114 - Holistic Health Concepts **Credits: 5**
- PSY 241 - Developmental Psych **Credits: 3**

### Spring II

- BIO 175 - General Microbiology **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- NUR 212 - Health System Concepts **Credits: 5**
- NUR 211 - Health Care Concepts **Credits: 5**

### Fall II

- ENG 112 - Writing/Research in the Disc **Credits: 3 or**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- NUR 213 - Complex Health Concepts **Credits: 10**
- Humanities/Fine Arts Elective **Credits: 3**

# A45110RI - Associate Degree Nursing LPN to ADN

## Overview

### Department Title      Program Code

Assoc Degree Nursing Lpn A45110RI  
to Rn

### Program 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.

\*The LPN to ADN hybrid option provides the Licensed Practical Nurse the opportunity to continue to study to become a Registered Nurse. This is a three-semester program involving a combination of online and in-class instruction as well as a clinical component.

The LPN to RN curriculum provides individuals with the knowledge and skills to provide nursing care to clients and groups of clients throughout the lifespan in a variety of settings.

***This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.***

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (20 credits)

##### Required (14 credits)

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**
- ENG 111 - Writing and Inquiry **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**

##### English (Take 3 credits)

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

##### Humanities/Fine Arts Elective (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

## Major Hours (46 credits)

### Requirements

- NUR 111 - Intro to Health Concepts **Credits: 8**
- NUR 112 - Health-Illness Concepts **Credits: 5**
- NUR 113 - Family Health Concepts **Credits: 5**
- NUR 114 - Holistic Health Concepts **Credits: 5**



- NUR 211 - Health Care Concepts **Credits: 5**
- NUR 221 - LPN to ADN Concepts I **Credits: 9**
- NUR 223 - LPN to ADN Concepts II **Credits: 9**

### Other Major Requirements (10 credits)

- BIO 175 - General Microbiology **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**
- NUR 214 - Nsg Transition Concepts **Credits: 4**

### Total Credits: 76

*Students must achieve a "C" or higher in each course in the curriculum in order to progress semester by semester and to graduate.*

## Semester Sequence

### Semester Sequence

#### Fall I

- BIO 175 - General Microbiology **Credits: 3**
- NUR 221 - LPN to ADN Concepts I **Credits: 9**

#### Spring I

- ENG 112 - Writing/Research in the Disc **Credits: 3 or**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- Humanities/Fine Arts Elective **Credits / Units: 3**
- NUR 223 - LPN to ADN Concepts II **Credits: 9**

## A45160 - Cardiovascular Sonography

### Overview

| Department Title          | Program Code |
|---------------------------|--------------|
| Cardiovascular Sonography | A45160       |

### Program Description

The Cardiovascular Sonography curriculum provides the individual with the knowledge and skills necessary to acquire, process, and evaluate the human heart and vascular structures. A cardiovascular sonographer uses high frequency sound waves to produce images of the heart and vascular structures.

Course work includes effective communication and patient care skills combined with a knowledge of physics, human anatomy, physiology, and pathology, all of which are essential to obtaining high quality sonographic images.

Graduates may be eligible to apply to the American Registry of Diagnostic Medical Sonographers for examinations in physics, cardiovascular physics, vascular physics, and adult echocardiography. Graduates may find employment in hospitals, physicians' offices, mobile services, and educational institutions.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

Math Electives (Take 4 credits)

- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

Social/Behavioral Science Electives (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Major Requirements (52 credits)

Required (48 credits)

- CVS 160 - CVS Clinical Ed I **Credits: 5**
- CVS 161 - CVS Clinical Ed II **Credits: 8**
- CVS 162 - CVS Clinical Ed III **Credits: 5**
- CVS 163 - Echo I **Credits: 4**
- CVS 164 - Echo II **Credits: 4**
- CVS 260 - CVS Clinical Ed IV **Credits: 8**
- CVS 261 - CVS Clinical Ed V **Credits: 8**

- SON 111 - Sonographic Physics **Credits: 4**
- SON 250 - Vascular Sonography **Credits: 2**

Anatomy and Physiology (4 credits)

- BIO 169 - Anatomy and Physiology II **Credits: 4**

#### Other Major Requirements (6 credits)

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- CVS 277 - Cardiovascular Topics **Credits: 2**

**Total Credits: 74**

## Semester Sequence

### Semester Sequence

#### Fall I

- CVS 160 - CVS Clinical Ed I **Credits: 5**
- CVS 163 - Echo I **Credits: 4**
- SON 111 - Sonographic Physics **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

#### Spring I

- CVS 161 - CVS Clinical Ed II **Credits: 8**
- CVS 164 - Echo II **Credits: 4**
- SON 250 - Vascular Sonography **Credits: 2**

#### Summer I

- CVS 162 - CVS Clinical Ed III **Credits: 5**
- CVS 277 - Cardiovascular Topics **Credits: 2**
- ENG 111 - Writing and Inquiry **Credits: 3**
- PSY 150 - General Psychology **Credits: 3 or**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Fall II

- CVS 260 - CVS Clinical Ed IV **Credits: 8**
- Communications Elective **Credits: 3**
- Math Elective **Credits: 4**

## Spring II

- CVS 261 - CVS Clinical Ed V **Credits: 8**
- Humanities/Fine Arts Elective **Credits: 3**

## A45260 - Dental Hygiene

### Overview

| Department Title | Program Code |
|------------------|--------------|
| Dental Hygiene   | A45260       |

### Program 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.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Associate in Applied Science

### Program of Study

#### Program Requirements

#### General Education Requirements (16 credits)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

### **Humanities/Fine Arts Electives (Take 3 credits)**

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- ART 116 - Survey of American Art **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- DRA 112 - Literature of the Theatre **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- MUS 114 - Introduction to World Music **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**
- REL 110 - World Religions **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**

### **Natural Science (Take 4 credits)**

- BIO 169 - Anatomy and Physiology II **Credits: 4**

### **Social/Behavioral Science (Take 3 credits)**

- SOC 240 - Social Psychology **Credits: 3**

## **Major Requirements (54 credits)**

### **Required (47 credits)**

- DEN 110 - Orofacial Anatomy **Credits: 3**
- DEN 111 - Infection/Hazard Control **Credits: 2**
- DEN 112 - Dental Radiography **Credits: 3**
- DEN 120 - Dental Hyg Preclinic Lec **Credits: 2**
- DEN 121 - Dental Hygiene Precl Lab **Credits: 2**

- DEN 123 - Nutrition/Dental Health **Credits: 2**
- DEN 124 - Periodontology **Credits: 2**
- DEN 130 - Dental Hygiene Theory I **Credits: 2**
- DEN 131 - Dental Hygiene Clinic I **Credits: 3**
- DEN 140 - Dental Hygiene Theory II **Credits: 2**
- DEN 141 - Dental Hygiene Clinic II **Credits: 2**
- DEN 220 - Dental Hygiene Theory III **Credits: 2**
- DEN 221 - Dental Hygiene Clinic III **Credits: 4**
- DEN 222 - General & Oral Pathology **Credits: 2**
- DEN 223 - Dental Pharmacology **Credits: 2**
- DEN 224 - Materials and Procedures **Credits: 2**
- DEN 230 - Dental Hygiene Theory IV **Credits: 1**
- DEN 231 - Dental Hygiene Clinic IV **Credits: 4**
- DEN 232 - Community Dental Health **Credits: 3**
- DEN 233 - Professional Development **Credits: 2**

### **Anatomy & Physiology (Take 4 credits)**

- BIO 168 - Anatomy and Physiology I **Credits: 4**

### **Microbiology (Take 3 credits)**

- BIO 175 - General Microbiology **Credits: 3**

## **Other Major Requirements (4-5 credits)**

### **Group I (5 credits)**

- CHM 130 - Gen, Org, & Biochemistry **Credits: 3**
- CHM 130A - Gen, Org, & Biochem Lab **Credits: 1**
- DEN 125 - Dental Office Emergencies **Credits: 1**

## Group II (4 credits)

- CHM 130 - Gen, Org, & Biochemistry **Credits: 3**
- DEN 125 - Dental Office Emergencies **Credits: 1**

**Total Credits: 74-75**

## Semester Sequence

### Semester Sequence

#### Fall I

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- DEN 110 - Orofacial Anatomy **Credits: 3**
- DEN 111 - Infection/Hazard Control **Credits: 2**
- DEN 112 - Dental Radiography **Credits: 3**
- DEN 120 - Dental Hyg Preclinic Lec **Credits: 2** and
- DEN 121 - Dental Hygiene Precl Lab **Credits: 2**

#### Spring I

- BIO 169 - Anatomy and Physiology II **Credits: 4**
- ENG 111 - Writing and Inquiry **Credits: 3**
- DEN 124 - Periodontology **Credits: 2**
- DEN 130 - Dental Hygiene Theory I **Credits: 2**
- DEN 131 - Dental Hygiene Clinic I **Credits: 3**
- DEN 222 - General & Oral Pathology **Credits: 2**

#### Summer I

- BIO 175 - General Microbiology **Credits: 3**
- DEN 125 - Dental Office Emergencies **Credits: 1**
- DEN 140 - Dental Hygiene Theory II **Credits: 2**
- DEN 141 - Dental Hygiene Clinic II **Credits: 2**
- DEN 223 - Dental Pharmacology **Credits: 2**

#### Fall II

- CHM 130 - Gen, Org, & Biochemistry **Credits: 3**
- CHM 130A - Gen, Org, & Biochem Lab **Credits: 1**
- DEN 123 - Nutrition/Dental Health **Credits: 2**
- DEN 220 - Dental Hygiene Theory III **Credits: 2**
- DEN 221 - Dental Hygiene Clinic III **Credits: 4**
- DEN 224 - Materials and Procedures **Credits: 2**
- SOC 240 - Social Psychology **Credits: 3**

#### Spring II

- DEN 230 - Dental Hygiene Theory IV **Credits: 1**
- DEN 231 - Dental Hygiene Clinic IV **Credits: 4**
- DEN 232 - Community Dental Health **Credits: 3**
- DEN 233 - Professional Development **Credits: 2**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

# A45320 - Neurodiagnostic Technology

## Overview

### Department Title      Program Code

Neurodiagnostic      A45320  
Technology

### Program Description

The Neurodiagnostic Technology curriculum is designed to provide students with the knowledge and skills to obtain recordings of patients' nervous system function through the use of neurodiagnostic equipment and other electrophysiological devices.

Course work includes communication skills with patients and healthcare personnel, taking appropriate patient histories, electrode application, documentation of patients' clinical status, waveform recognition, management of medical emergencies, and preparation of descriptive reports for the physician.

Graduates should qualify for the ABRET Exam and, working under the supervision of a qualified physician, may be employed by hospitals or private offices of neurologists and neurosurgeons.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (16 credits)

##### Communications (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- HUM 115 - Critical Thinking **Credits: 3**
- ART 111 - Art Appreciation **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- REL 110 - World Religions **Credits: 3**

##### Social/Behavioral Sciences (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**

##### Natural Sciences/Math (Take 4 credits)

- MAT 152 - Statistical Methods I **Credits: 4**

### Major Requirements (42 credits)

#### Required Courses (Take 22 credits)

- NDT 110 - Neuroscience/Pathol Cond **Credits: 4**
- NDT 111 - Laboratory Management **Credits: 1**
- NDT 112 - Instrument/Record Methods **Credits: 3**
- NDT 113 - Clinical Correlates **Credits: 3**
- NDT 114 - Special Procedures **Credits: 3**
- NDT 115 - NDT Laboratory Practice **Credits: 2**
- NDT 118 - NDT Laboratory Prac. II **Credits: 3**
- MED 121 - Medical Terminology I **Credits: 3**

#### Anatomy and Physiology (Take 8 credits)

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

#### NDT Clinical Practicum (Take 12 credits)

- NDT 117 - EEG Clinical Experience **Credits: 4**
- NDT218 - NDT Clinical Experience **Credits: 8**

### Other Major Requirements (11 credits)

#### Other Required (Take 2 Groups)

### Group I (Take 4 credits)

- MED 122 - Medical Terminology II **Credits: 3**
- NDT 111A - NDT Laboratory Basics **Credits: 1**

### Group II (Take 7 credits)

- NDT 220 - IONM and EP **Credits: 7**
- NDT 221 - Long Term Monitoring **Credits: 7**
- NDT 222 - Nerve Conduction Studies **Credits: 7**

**Total Credits: 69**

## Semester Sequence

### Semester Sequence

#### Fall I

- NDT 112 - Instrumentation/Record Methods **Credits: 3**
- NDT 113 - Clinical Correlations **Credits: 3**
- NDT 115 - NDT Laboratory Practice **Credits: 2**
- ENG 111 - Writing & Inquiry **Credits: 3**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**

#### Spring I

- NDT 110 - Neuroscience/Pathological Conditions **Credits: 4**
- NDT 111 - Laboratory Management **Credits 1**
- NDT 111A - NDT Laboratory Basics **Credits: 1**
- NDT 117 - EEG Clinical Experience **Credits: 4**
- BIO 168 - Anatomy & Physiology I **Credits: 4**
- COM 120 - Interpersonal Communication **Credits: 3**

#### Summer I

- NDT 114 - Special Procedures **Credits: 3**
- NDT 118 - Laboratory Practice II **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### Fall II

- NDT 220 - IONM and EP Credits: 7 **or**
- NDT 221 - Long Term Monitoring Credits: 7 **or**
- NDT 222 - Nerve Conduction Credits: 7
- BIO 169 - Anatomy & Physiology II **Credits: 4**
- PSY 150 - General Psychology **Credits: 3**

#### Spring II

- NDT 218 - NDT Clinical Experience **Credits: 8**
- MAT 152 - Statistical Methods **Credits: 4**



# A45340 - Emergency Medical Science

## Overview

### Department Title      Program Code

Emergency Medical      A45340  
Science

### Program Description

The Emergency Medical Science curriculum provides individuals with the knowledge, skills and attributes to provide advanced emergency medical care as a paramedic for critical and emergent patients who access the emergency medical system and prepares graduates to enter the workforce. Students will gain complex knowledge, competency, and experience while employing evidence based practice under medical oversight, and serve as a link from the scene into the healthcare system.

Graduates of this program may be eligible to take state and/or national certification examinations.

Employment opportunities include providers of emergency medical services, fire departments, rescue agencies, hospital specialty areas, industry, educational and government agencies.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (19 credits)

**Communications (6 credits)**

**Group I (3 credits)**

- ENG 111 - Writing and Inquiry **Credits: 3**

**Group II (3 credits)**

- COM 110 - Introduction to Communication **Credits: 3**

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives (Take 3 credits)**

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**

**Natural Sciences/Math (Take 2 groups)**

**Group I (4 credits)**

- BIO 168 - Anatomy and Physiology I **Credits: 4**

**Group II (3 credits)**

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**

**Social/Behavioral Science Electives (Take 3 credits)**

- ECO 151 - Survey of Economics **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 230 - Race and Ethnic Relations **Credits: 3**

#### Major Requirements (13 credits)

**Required (9 credits)**

- EMS 110 - EMT **Credits: 9**

**Anatomy Physiology (4 credits)**

- BIO 169 - Anatomy and Physiology II **Credits: 4**

## Paramedic Requirements (36 credits)

- EMS 122 - EMS Clinical Practicum I **Credits: 1**
- EMS 130 - Pharmacology **Credits: 4**
- EMS 131 - Advanced Airway Management **Credits: 2**
- EMS 160 - Cardiology I **Credits: 3**
- EMS 220 - Cardiology II **Credits: 3**
- EMS 221 - EMS Clinical Practicum II **Credits: 2**
- EMS 231 - EMS Clinical Pract III **Credits: 3**
- EMS 240 - Patients W/ Special Challenges **Credits: 2**
- EMS 241 - EMS Clinical Practicum IV **Credits: 4**
- EMS 250 - Medical Emergencies **Credits: 4**
- EMS 260 - Trauma Emergencies **Credits: 2**
- EMS 270 - Life Span Emergencies **Credits: 4**
- EMS 285 - EMS Capstone **Credits: 2**

## Other Major Requirements (4 credits)

### Electives (Take 4 credits)

- EMS 140 - Rescue Scene Management **Credits: 2**
- EMS 210 - Adv. Patient Assessment **Credits: 2**
- EMS 235 - EMS Management **Credits: 2**

**Total Credits: 72**

## Semester Sequence

### Semester Sequence

#### Fall I

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- EMS 110 - EMT **Credits: 9**
- Math Elective **Credits: 3**

#### Spring I

- BIO 169 - Anatomy and Physiology II **Credits: 4**

- EMS 122 - EMS Clinical Practicum I **Credits: 1**
- EMS 130 - Pharmacology **Credits: 4**
- EMS 131 - Advanced Airway Management **Credits: 2**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Summer I

- EMS 160 - Cardiology I **Credits: 3**
- EMS 221 - EMS Clinical Practicum II **Credits: 2**
- EMS 240 - Patients W/ Special Challenges **Credits: 2**
- Social/Behavioral Science Elective **Credits: 3**

#### Fall II

- EMS 220 - Cardiology II **Credits: 3**
- EMS 231 - EMS Clinical Pract III **Credits: 3**
- EMS 250 - Medical Emergencies **Credits: 4**
- EMS 260 - Trauma Emergencies **Credits: 2**
- EMS 270 - Life Span Emergencies **Credits: 4**

#### Spring II

- EMS Elective **Credits: 4**
- EMS 241 - EMS Clinical Practicum IV **Credits: 4**
- EMS 285 - EMS Capstone **Credits: 2**
- Humanities/Fine Arts Elective **Credits: 3**
- Communications Elective **Credits: 3**

# A45380C - Social and Human Services - Mental Health

## Overview

### Department Title      Program Code

Social & Human Services      A45380C

Tech

### Program 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.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (19 credits)

##### Communications (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 – Writing/Research in the Disc. **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 – Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 – Music Appreciation **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Social/Behavioral Sciences (Take 6 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

##### Natural Sciences/Math (Take 4 credits)

- MAT 152 – Statistical Methods I **Credits: 4**

### Major Requirements (21 credits)

- HSE 110 - Intro to Human Services **Credits: 3**
- HSE 123 - Interview Tech Human Services **Credits: 3**
- HSE 210 – Diversity Ethics and Trends **Credits: 3**
- HSE 212 – Group Dynamics **Credits: 3**
- HSE 220 – Case Management **Credits: 3**
- HSE 223 – Counseling Theories & Skills **Credits: 3**
- HSE 225 – Crisis and Intervention Prin **Credits: 3**

### Concentration Requirements (12 credits)

- MHA 140 – Intro to Mental Health **Credits: 3**
- MHA 150 - Mental Health Interventions **Credits: 3**
- MHA 238 – Psychopathology **Credits: 3**
- MHA 240 - Advocacy **Credits: 3**

### Other Major Requirements (16 credits)

- HSE 135 - Orientation Lab I **Credits: 1**
- MHA 155 – Psychological Assessment **Credits: 3**
- PSY 265 – Behavioral Modification **Credits: 3**
- SWK 110 – Intro to Social Work **Credits: 3**

- SWK 113 – Cultural Comp & Diversity  
**Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I  
**Credits: 1**
- WBL 121 - Work-Based Learning II **Credits: 1**

**Total Credits: 68**

## Semester Sequence

### Semester Sequence

#### Fall Semester I

- HSE 110 - Intro to Human Services **Credits: 3**
- HSE 135 - Orientation Lab **Credits: 1**
- MHA 140 – Introduction to Mental Health  
**Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 – Intro to Sociology **Credits: 3**

#### Spring Semester I

- HSE 212 - Group Dynamics **Credits: 3**
- HSE 123 - Interviewing Techniques **Credits: 3**
- HSE 223 – Counseling Theories and  
Skills **Credits:**
- MHA 150 – Mental Health Interventions  
**Credits: 3**
- ENG 112 – Writing/Research in the Disc  
**Credits: 3**

#### Summer Semester I

- HSE 210 – Diversity Ethics and  
Trends **Credits: 3**
- MHA 238 – Psychopathology **Credits: 3**
- MAT 152 – Statistical Methods I **Credits: 4**

#### Fall Semester II

- MHA 155 – Psychological Assessment  
**Credits: 3**

- SWK 110 – Intro to Social Work **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar  
I **Credits: 1**
- PSY 265 – Behavior Modification **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### Spring Semester II

- HSE 220 – Case Management **Credits: 3**
- HSE 225 - Crisis and Intervention Principles  
**Credits: 3**
- MHA 240 – Advocacy **Credits: 3**
- SWK 113 – Cultural Competency & Diversity  
**Credits: 3**
- WBL 121 - Work-Based Learning II **Credits: 1**

# A45380E - Social and Human Services - Addiction & Recovery

## Overview

### Department Title      Program Code

Social & Human Services      A45380E

Tech

### Program 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.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (19 credits)

##### Communications (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- REL 110 - World Religions **Credits: 3**

##### Social/Behavioral Sciences (Take 6 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

##### Natural Sciences/Math (Take 3 credits)

- MAT 152 - Statistical Methods **Credits: 4**

### Major Requirements (21 credits)

- HSE 110 - Intro to Human Services **Credits: 3**
- HSE 123 - Interview Tech Human Service **Credits: 3**
- HSE 210 - Diversity Ethics and Trends **Credits: 3**
- HSE 212 - Group Dynamics **Credits: 3**
- HSE 220 - Case Management **Credits: 3**
- HSE 223 - Counseling Theories & Skills **Credits: 3**
- HSE 225 - Crisis and Intervention Prin **Credits: 3**

### Concentration Requirements (15 credits)

- SAB 110 - Substance Abuse Overview **Credits: 3**
- SAB 120 - Intake and Assessment **Credits: 3**
- SAB 135 - Addictive Process **Credits: 3**
- SAB 210 - Addiction and Recovery Counsel **Credits: 3**
- SAB 240 - Sab Issues in Client Serv **Credits: 3**

### Other Major Requirements (15 credits)

- HSE 170 - Recovery Services **Credits: 3**
- PSY 265 Behavioral Modification **Credits: 3**
- SAB 137 - Co-Dependency **Credits: 3**

- SOC 213 - Sociology of the Family **Credits: 3**
- WBL 111U - Work-Based Learning I **Credits: 1**
- WBL 115U - Work-Based Learning Seminar I **Credits: 1**
- WBL 121U - Work-Based Learning II **Credits: 1**

**Total Credits: 70**

## Semester Sequence

### Semester Sequence

#### Fall Semester I

- ENG 111 - Writing and Inquiry **Credits: 3**
- HSE 110 - Intro to Human Services **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SAB 110 - Intro to Addiction & Recovery **Credits: 3**

#### Spring Semester I

- ENG 112 - Writing/Research in Disc **Credits: 3**
- HSE 212 - Group Dynamics **Credits: 3**
- HSE 123 - Interview Tech Human Service **Credits: 3**
- HSE 223 - Counseling Theories & Skills **Credits: 3**
- SAB 120 - Intake and Assessment **Credits: 3**

#### Summer Semester I

- HSE 210 - Diversity Ethics and Trends **Credits: 3**
- SAB 137 - Co-Dependency **Credits: 3**
- SAB 210 - Addiction and Recovery Counsel **Credits: 3**
- Humanities /Fine Arts Elective **Credits: 3**

#### Fall Semester II

- SAB 135 - Addictive Process **Credits: 3**

- SAB 240 -Diversity, Ethics & Trends **Credits: 3**
- SOC 213 - Sociology of the Family **Credits: 3**
- PSY 265 - Behavioral Modification **Credits: 3**
- WBL 111- Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

#### Spring Semester II

- HSE 170 - Recovery Services **Credits: 3**
- HSE 220 - Case Management **Credits: 3**
- HSE 225 - Crisis and Intervention Prin **Credits: 3**
- MAT 152 - Statistical Methods **Credits: 4**
- WBL 121 - Work-Based Learning II **Credits: 1**

# A45380G - Social and Human Services - Generalist Track

## Overview

### Department Title      Program Code

Social & Human Services      A45380G

Tech

### Program 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.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (19 credits)

##### Communications (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- REL 110 - World Religions **Credits: 3**

##### Social/Behavioral Sciences (Take 6 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

##### Natural Sciences/Math (Take 4 credits)

- MAT 152 - Statistical Methods I **Credits: 4**

### Major Requirements (21 credits)

- HSE 110 - Intro to Human Services **Credits: 3**
- HSE 123 - Interview Tech Human Service **Credits: 3**
- HSE 210 - Diversity Ethics and Trends **Credits: 3**
- HSE 212 - Group Dynamics **Credits: 3**
- HSE 220 - Case Management **Credits: 3**
- HSE 223 - Counseling Theories & Skills **Credits: 3**
- HSE 225 - Crisis and Intervention **Credits: 3**

### Required Subject Areas (19 credits)

- GRO 120 - Intro to Gerontology **Credits: 3**
- HSE 127 - Conflict Resolution **Credits: 3**
- HSE 135 - Orientation Lab **Credits: 1**
- SAB 110 - Intro to Addiction & Recover **Credits: 3**
- SAB 137 - Co-Dependency **Credits: 3**
- SWK 110 - Intro to Social Work **Credits: 3**
- SWK 113 - Cultural Comp & Diversity **Credits: 3**

### Other Major Requirements (9 credits)

#### General Social & Human Services (Take 2 Groups)



### Group I (Take 6 credits)

- WBL 111 - Work-Based Learning **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**
- WBL 121 - Work-Based Learning II **Credits: 1**
- PSY 265 - Behavioral Modification **Credits: 3**

### Group II (Take 3 credits)

- HSE 170 - Recovery Services **Credits: 3**
- HSE 227 - Children & Adol in Crisis **Credits: 3**

**Total Credits: 68**

## Semester Sequence

### Semester Sequence

#### Fall I

- HSE 110 - Introduction to Human Services **Credits: 3**
- SAB 110 - Introduction to Addiction and Recovery **Credits: 3**
- HSE 135 - Orientation Lab **Credits: 1**
- PSY 150 - General Psychology **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Spring Semester I

- HSE 212 - Group Dynamics **Credits: 3**
- HSE 123 - Interviewing Techniques **Credits: 3**
- HSE 223 - Counseling Theories & Skills **Credits: 3**
- ENG 112 - Writing/ Research in Disc **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### Summer

- HSE 210 - Diversity Ethics and Trends **Credits: 3**
- SAB 137 - Co-Dependency **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**

#### Fall II

- GRO 120 - Introduction to Gerontology **Credits: 3**
- HSE 127 - Conflict Resolution **Credits: 3**
- SWK 110 - Introduction to Social Work **Credits: 3**
- PSY 265 - Behavior Modification **Credits: 3**
- WBL 111 - Work Based Learning **Credits: 1**
- WBL 115 - Work Based Learning Seminar **Credits: 1**

#### Spring II

- HSE 220 - Case Management **Credits: 3**
- HSE 225 - Crisis and Intervention Principles **Credits: 3**
- HSE 170 - Recovery Services **Credits: 3 or**
- HSE 227 - Child & Adol in Crisis **Credits: 3**
- SWK 113 - Cultural Competency & Diversity **Credits: 3**
- SOC 210 - Intro to Sociology (added to Spring II) **Credits: 3**
- WBL 121 - Work-Based Learning II **Credits: 1**

**Total Credits: 68**

# A45400 - Medical Assisting

## Overview

| Department Title  | Program Code |
|-------------------|--------------|
| Medical Assisting | A45400       |

## Program Description

The Medical Assisting curriculum prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, supervised medication administration; and ethical/legal issues associated with patient care.

Graduates of CAAHEP-accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15 credits)

Communications (Take 6 credits)

Group I (3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Group II (3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- HUM 115 - Critical Thinking **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

Natural Science/Math Electives (Take 3 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 175 - Precalculus **Credits: 5**

Social/Behavioral Sciences (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**

### Major Requirements (32 credits)

Required Courses (Take 20 credits)

- MED 110 - Orientation to Med Assist **Credits: 1**
- MED 130 - Admin Office Proc I **Credits: 2**
- MED 131 - Admin Office Proc II **Credits: 2**
- MED 140 - Exam Room Procedures I **Credits: 5**
- MED 150 - Laboratory Procedures I **Credits: 5**
- MED 260 - MED Clinical Practicum **Credits: 5**

Required Subject Areas (Take 12 credits)

- MED 116 - Introduction to A & P **Credits: 4**
- MED 118 - Medical Law and Ethics **Credits: 2**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**

### Other Major Requirements (20-21 credits)

Required (Take 15 credits)

- MED 264 - Med Assisting Overview **Credits: 2**

- MED 270 - Symptomatology **Credits: 3**
- MED 272 - Drug Therapy **Credits: 3**
- MED 136 - Preventive Health **Credits: 2**
- MED 276 - Patient Education **Credits: 2**
- MED 274 - Diet Therapy/Nutrition **Credits: 3**

**Computer Competency** (Take 2-3 credits)

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**

**Other Requirements** (Take 3 credits)

- SPA 120 - Spanish for the Workplace **Credits: 3**

**Total Credits: 67-68**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- MED 110 - Orientation to Med Assist **Credits: 1**
- MED 116 - Introduction to A & P **Credits: 4**
- MED 118 - Medical Law and Ethics **Credits: 2**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 130 - Admin Office Proc I **Credits: 2**
- MED 131 - Admin Office Proc II **Credits: 2**

#### Spring I

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**
- MED 140 - Exam Room Procedures I **Credits: 5**
- MED 150 - Laboratory Procedures I **Credits: 5**
- MED 272 - Drug Therapy **Credits: 3**

#### Summer I

- MED 260 - MED Clinical Practicum **Credits: 5**
- MED 264 - Med Assisting Overview **Credits: 2**
- MED 274 - Diet Therapy/Nutrition **Credits: 3**

#### Fall II

- MED 270 - Symptomatology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- Computer Competency Course - CIS 110 or 111
- Communications Elective **Credits: 3**

#### Spring II

- MED 136 - Preventive Health **Credits: 2**
- MED 276 - Patient Education **Credits: 2**
- SPA 120 - Spanish for the Workplace **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

# A45420 - Medical Laboratory Technology

## Overview

### Department Title      Program Code

Medical Laboratory      A45420  
Technology

### Program Description

The Medical Laboratory Technology curriculum prepares individuals to perform clinical laboratory procedures in chemistry, hematology, microbiology, and immunohematology that may be used in the maintenance of health and diagnosis/treatment of disease.

Course work emphasizes mathematical and scientific concepts related to specimen collection, laboratory testing and procedures, quality assurance and reporting/recording and interpreting findings involving tissues, blood, and body fluids.

Graduates may be eligible to take the examination given by the Board of Certification of the American Society for Clinical Pathology. Employment opportunities include laboratories in hospitals, medical offices, industry, and research facilities.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

##### Communications (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

- ENG 112 - Writing/Research in the Disc **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Natural Science/Math Electives (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

##### Social/Behavioral Science Electives (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**

### Major Requirements (49 credits)

#### Required (Take 13 credits)

- MLT 110 - Intro to MLT **Credits: 3**
- MLT 111 - Urinalysis & Body Fluids **Credits: 2**
- MLT 120 - Hematology/Hemostasis I **Credits: 4**
- MLT 130 - Clinical Chemistry I **Credits: 4**

#### Microbiology (Take 6 credits)

- MLT 140 - Intro to Microbiology **Credits: 3**
- MLT 240 - Special Clin Microbiology **Credits: 3**

#### Anatomy & Physiology (Take 5 credits)

- BIO 163 - Basic Anat & Physiology **Credits: 5**

#### Immunohematology (Take 5 credits)

- MLT 126 - Immunology and Serology **Credits: 2**
- MLT 127 - Transfusion Medicine **Credits: 3**

### Chemistry (Take 4 credits)

- CHM 130 - Gen, Org, & Biochemistry **Credits: 3 and**
- CHM 130A - Gen, Org, & Biochem Lab **Credits: 1**

### Clinical Experience (Take 16 credits)

- MLT 254 - MLT Practicum I **Credits: 4**
- MLT 266 - MLT Practicum II **Credits: 6**
- MLT 276 - MLT Practicum III **Credits: 6**

### Other Major Hours (Take 7 credits)

- MLT 115 - Laboratory Calculations **Credits: 2**
- MLT 217 - Professional Issues **Credits: 1**
- MLT 220 - Hematology/Hemostasis II **Credits: 3**
- MLT 280 - Special Practice Lab **Credits: 1**

**Total Credits: 71**

## Semester Sequence

### Semester Sequence

#### Fall I

- CHM 130 - Gen, Org, & Biochemistry **Credits: 3 and**
- CHM 130A - Gen, Org, & Biochem Lab **Credits: 1**
- ENG 111 - Writing and Inquiry **Credits: 3**
- MLT 110 - Intro to MLT **Credits: 3**
- MLT 111 - Urinalysis & Body Fluids **Credits: 2**
- MLT 115 - Laboratory Calculations **Credits: 2**
- MLT 140 - Intro to Microbiology **Credits: 3**

#### Spring I

- BIO 163 - Basic Anat & Physiology **Credits: 5**
- MLT 120 - Hematology/Hemostasis I **Credits: 4**

- MLT 126 - Immunology and Serology **Credits: 2**
- MLT 130 - Clinical Chemistry I **Credits: 4**
- MLT 240 - Special Clin Microbiology **Credits: 3**

#### Summer I

- MAT 143 - Quantitative Literacy **Credits: 3**
- MLT 220 - Hematology/Hemostasis II **Credits: 3**
- MLT 254 - MLT Practicum I **Credits: 4**

#### Fall II

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- MLT 127 - Transfusion Medicine **Credits: 3**
- MLT 266 - MLT Practicum II **Credits: 6**
- MLT 280 - Special Practice Lab **Credits: 1**

#### Spring II

- Humanities/Fine Arts Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**
- MLT 217 - Professional Issues **Credits: 1**
- MLT 276 - MLT Practicum III **Credits: 6**

## A45440 - Medical Sonography

### Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Medical Sonography | A45440       |

### Program Description

The Medical Sonography curriculum provides knowledge and clinical skills in the application of high frequency sound waves to image internal body structures.

Course work includes physics, cross-sectional anatomy, abdominal, introductory vascular, and obstetrical/ gynecological sonography. Competencies are attained in identification of normal anatomy and pathological processes, use of equipment, fetal growth and development, integration of related imaging, and patient interaction skills.

Graduates of accredited programs may be eligible to take examinations in ultrasound physics and instrumentation and specialty examinations administered by the American Registry of Diagnostic Medical Sonographers and find employment in clinics, physicians' offices, mobile services, hospitals, and educational institutions.

Graduates of programs accredited by CAAHEP (Commission on Accreditation of Allied Health Programs) are eligible to take examinations in Sonographic Principles and Instrumentation and specialty examinations administered by the American Registry of Diagnostic Medical Sonographers and find employment in clinics, physicians offices, mobile services, hospitals, and educational institutions.

***\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.***

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (16 credits)

##### Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

##### English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Math Electives (Take 4 credits)

- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

##### Social/Behavioral Science Electives (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (53 credits)

- BIO 169 - Anatomy and Physiology II **Credits: 4**
- SON 110 - Intro to Sonography **Credits: 3**
- SON 111 - Sonographic Physics **Credits: 4**
- SON 120 - SON Clinical Ed I **Credits: 5**
- SON 121 - SON Clinical Ed II **Credits: 5**
- SON 130 - Abdominal Sonography I **Credits: 3**
- SON 131 - Abdominal Sonography II **Credits: 2**

- SON 140 - Gynecological Sonography **Credits: 2**
- SON 220 - SON Clinical Ed III **Credits: 8**
- SON 221 - SON Clinical Ed IV **Credits: 8**
- SON 225 - Case Studies **Credits: 1**
- SON 241 - Obstetrical Sonography I **Credits: 2**
- SON 242 - Obstetrical Sonography II **Credits: 2**
- SON 250 - Vascular Sonography **Credits: 2**
- SON 289 - Sonographic Topics **Credits: 2**

### **Other Major Requirements (5 credits)**

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- SON 272 - Advanced Pathology **Credits: 1**

**Total Credits: 74**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- SON 110 - Intro to Sonography **Credits: 3**
- SON 111 - Sonographic Physics **Credits: 4**
- SON 130 - Abdominal Sonography I **Credits: 3**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

#### **Spring I**

- SON 120 - SON Clinical Ed I **Credits: 5**
- SON 131 - Abdominal Sonography II **Credits: 2**
- SON 140 - Gynecological Sonography **Credits: 2**
- SON 250 - Vascular Sonography **Credits: 2**
- Math Elective

#### **Summer I**

- SON 121 - SON Clinical Ed II **Credits: 5**
- SON 241 - Obstetrical Sonography I **Credits: 2**
- Humanities/Fine Arts Elective **Credits: 3**

- Social/Behavioral Science Elective **Credits: 3**

#### **Fall II**

- SON 220 - SON Clinical Ed III **Credits: 8**
- SON 242 - Obstetrical Sonography II **Credits: 2**
- SON 272 - Advanced Pathology **Credits: 1**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### **Spring II**

- SON 221 - SON Clinical Ed IV **Credits: 8**
- SON 225 - Case Studies **Credits: 1**
- SON 289 - Sonographic Topics **Credits: 2**
- Communications Elective **Credits: 3**



# A45500 - Occupational Therapy Assistant

## Overview

| Department Title               | Program Code |
|--------------------------------|--------------|
| Occupational Therapy Assistant | A45500       |

## Program Description

The Occupational Therapy Assistant curriculum prepares individuals to work under the supervision of a registered/licensed occupational therapist in screening, assessing, planning, and implementing treatment and documenting progress for clients receiving occupational therapy services.

Course work includes human growth and development, conditions which interfere with activities of daily living, theory and process of occupational therapy, individual/group treatment activities, therapeutic use of self, activity analysis, and grading/adapting activities and environments.

Graduates may be eligible to take the national certification examination for practice as a certified occupational therapy assistant. Employment opportunities include hospitals, rehabilitation facilities, long-term/extended care facilities, sheltered workshops, schools, home health programs, and community programs.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (19 credits)

##### Communications Elective (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

##### English (Take 6 credits)

##### Group I (3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

##### Group II (3 credits)

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- ART 117 - Non-Western Art History **Credits: 3**
- ART 131 - Drawing I **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- DRA 112 - Literature of the Theatre **Credits: 3**
- DRA 122 - Oral Interpretation **Credits: 3**
- DRA 211 - Theatre History I **Credits: 3**
- DRA 212 - Theatre History II **Credits: 3**
- ENG 131 - Introduction to Literature **Credits: 3**
- ENG 251 - Western World Literature I **Credits: 3**
- ENG 252 - Western World Literature II **Credits: 3**
- HUM 110 - Technology and Society **Credits: 3**

- HUM 160 - Introduction to Film **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- MUS 113 - American Music **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**
- REL 111 - Eastern Religions **Credits: 3**
- REL 112 - Western Religions **Credits: 3**
- REL 211 - Intro to Old Testament **Credits: 3**
- REL 212 - Intro to New Testament **Credits: 3**
- REL 221 - Religion in America **Credits: 3**

#### **Natural Science/Math (Take 4 credits)**

- BIO 169 - Anatomy and Physiology II **Credits: 4**

#### **Social/Behavioral Science (Take 3 credits)**

- PSY 150 - General Psychology **Credits: 3**

### **Major Requirements (50 credits)**

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- OTA 110 - Fundamentals of OT **Credits: 3**
- OTA 120 - OT Media I **Credits: 2**
- OTA 130 - Assessment Skills **Credits: 3**
- OTA 140 - Professional Skills I **Credits: 1**
- OTA 150 - Peds Concepts & Interventions **Credits: 3**
- OTA 161 - Fieldwork I-Placement 1 **Credits: 1**
- OTA 162 - Fieldwork I-Placement 2 **Credits: 1**
- OTA 163 - Fieldwork I-Placement 3 **Credits: 1**
- OTA 170 - Physical Conditions **Credits: 3**
- OTA 180 - Psychosocial Conditions **Credits: 3**
- OTA 220 - OT Media II **Credits: 3**
- OTA 240 - Professional Skills II **Credits: 1**
- OTA 250 - Adult Concepts & Interventions **Credits: 3**

- OTA 260 - Level II Fieldwork Placement 1 **Credits: 6**
- OTA 261 - Level II Fieldwork Placement 2 **Credits: 6**
- PSY 241 - Developmental Psych **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**

### **Other Major Requirements (5-6 credits)**

#### **Computer Literacy (Take 2-3 credits)**

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**

#### **Occupational Therapy Assistant Electives (Take 3 credits)**

- BUS 230 - Small Business Management **Credits: 3**
- PSY 265 - Behavioral Modification **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 213 - Sociology of the Family **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**

### **Total Credits: 74/75**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- Communication Elective **Credits: 3**
- OTA 110 - Fundamentals of OT **Credits: 3**
- OTA 120 - OT Media I **Credits: 2**
- OTA 140 - Professional Skills I **Credits: 1**
- PSY 150 - General Psychology **Credits: 3**

#### **Spring I**

- BIO 169 - Anatomy and Physiology II **Credits: 4**

- OTA 130 - Assessment Skills **Credits: 3**
- OTA 150 - Peds Concepts & Interventions **Credits: 3**
- OTA 161 - Fieldwork I-Placement 1 **Credits: 1**
- OTA 170 - Physical Conditions **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**

### Summer I

- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**
- OTA 162 - Fieldwork I-Placement 2 **Credits: 1**
- OTA 220 - OT Media II **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**

### Fall II

- English Elective
- OTA 163 - Fieldwork I-Placement 3 **Credits: 1**
- OTA 180 - Psychosocial Conditions **Credits: 3**
- OTA 240 - Professional Skills II **Credits: 1**
- OTA 250 - Adult Concepts & Interventions **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- Occupational Therapy Assistant Elective **Credits: 3**

### Spring II

- OTA 260 - Level II Fieldwork Placement 1 **Credits: 6**
- OTA 261 - Level II Fieldwork Placement 2 **Credits: 6**

## A45580 - Pharmacy Technology

### Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Pharmacy Technology | A45580       |

### Program Description

The Pharmacy Technology Program prepares individuals to assist the pharmacist in duties that a technician can legally perform and to function within the boundaries prescribed by the pharmacist and the employment agency.

Students will prepare prescription medications, mix intravenous solutions and other specialized medications, update patient profiles, maintain inventories, package medications in unit-dose or med-card form, and gather data used by pharmacists to monitor drug therapy.

Employment opportunities include retail, hospitals, nursing homes, research laboratories, wholesale drug companies, and pharmaceutical manufacturing facilities. Graduates from the program may be eligible to take the National Certification Examination to become a certified pharmacy technician.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Associate in Applied Science

### Program of Study

### Program Requirements

#### General Education Requirements (20 credits)

#### Communications Elective (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

**English (Take 3 credits)**

- ENG 111 - Writing and Inquiry **Credits: 3**

**Humanities/Fine Arts Elective (Take 3 credits)**

- HUM 115 - Critical Thinking **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Math Elective (Take 3 credits)**

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**

**Natural Science (Take 5 credits)**

- BIO 163 - Basic Anat & Physiology **Credits: 5**

**Social/Behavioral Science Elective (Take 3 credits)**

- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**

**Major Requirements (48 credits)**

- PHM 110 - Introduction to Pharmacy **Credits: 3**
- PHM 111 - Pharmacy Practice I **Credits: 4**
- PHM 115 - Pharmacy Calculations **Credits: 3**
- PHM 118 - Sterile Products **Credits: 4**
- PHM 120 - Pharmacology I **Credits: 3**
- PHM 125 - Pharmacology II **Credits: 3**
- PHM 133 - Pharmacy Clinical **Credits: 3**
- PHM 135 - Pharmacy Clinical **Credits: 5**
- PHM 136 - Pharmacy Clinical **Credits: 6**
- PHM 140 - Trends in Pharmacy **Credits: 2**
- PHM 150 - Hospital Pharmacy **Credits: 4**
- PHM 155 - Community Pharmacy **Credits: 3**
- PHM 160 - Pharm Dosage Forms **Credits: 3**
- PHM 165 - Pharmacy Prof Practice **Credits: 2**

**Other Major Requirements (4 credits)**

- PHM 115A - Pharmacy Calculations Lab **Credits: 1**

- PHM 265 - Professional Issues **Credits: 3**

**Total Credits: 72**

**Semester Sequence**

**Semester Sequence**

**Fall I**

- BIO 163 - Basic Anat & Physiology **Credits: 5**
- PHM 110 - Introduction to Pharmacy **Credits: 3**
- PHM 111 - Pharmacy Practice I **Credits: 4**
- PHM 115 - Pharmacy Calculations **Credits: 3 and**
- PHM 115A - Pharmacy Calculations Lab **Credits: 1**

**Spring I**

- PHM 118 - Sterile Products **Credits: 4**
- PHM 120 - Pharmacology I **Credits: 3**
- PHM 136 - Pharmacy Clinical **Credits: 6**
- Psychology Elective **Credits: 3**

**Summer I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- PHM 125 - Pharmacology II **Credits: 3**
- PHM 133 - Pharmacy Clinical **Credits: 3**
- PHM 140 - Trends in Pharmacy **Credits: 2**
- PHM 165 - Pharmacy Prof Practice **Credits: 2**

**Fall II**

- Communications Elective **Credits: 3**
- PHM 150 - Hospital Pharmacy **Credits: 4**
- PHM 265 - Professional Issues **Credits: 3**
- Math Elective **Credits: 3**

**Spring II**

- PHM 135 - Pharmacy Clinical **Credits: 5**
- PHM 155 - Community Pharmacy **Credits: 3**

- PHM 160 - Pharm Dosage Forms **Credits: 3**
- Humanities/Fine Arts Elective: **Credits: 3**

## A45630 - Health and Fitness Science

### Overview

#### Department Title      Program Code

Health & Fitness Science      A45630

#### Program Description

The Health and Fitness Science program is designed to provide students with the knowledge and skills necessary for employment in the fitness and exercise industry.

Students will be trained in exercise science and be able to administer basic fitness tests and health risk appraisals, teach specific exercise and fitness classes and provide instruction in the proper use of exercise equipment and facilities.

Graduates should qualify for employment opportunities in commercial fitness clubs, YMCA's/ YWCA's, wellness programs in business and industry, Parks & Recreation Departments and other organizations implementing exercise & fitness programs.

#### Degree

Associate in Applied Science

### Program of Study

#### Program Requirements

#### General Education Requirements (15-16 credits)

##### Communications (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**

- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Sciences/Math Electives** (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Electives** (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**

**Major Requirements (Credits: 41)**

**Anatomy & Physiology** (8 credits)

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

**Required Courses** (33 credits)

- BIO 155 - Nutrition **Credits: 3**
- HEA 112 - First Aid & CPR **Credits: 2**
- HFS 110 - Exercise Science **Credits: 4**
- HFS 111 - Fitness & Exer Testing I **Credits: 4**
- HFS 116 - Pvnt & Care Exer Injuries **Credits: 3**
- HFS 118 - Fitness Facility Mgmt **Credits: 4**
- HFS 120 - Group Exer Instruction **Credits: 3**
- HFS 210 - Personal Training **Credits: 3**
- HFS 212 - Exercise Programming **Credits: 3**
- HFS 218 - Lifestyle Chng & Wellness **Credits: 4**

**Other Major Hours (Credits: 13-14)**

**Required** (10 credits)

- PED 110 - Fit and Well for Life **Credits: 2**
- PED 117 - Weight Training I **Credits: 1**
- PED 118 - Weight Training II **Credits: 1**
- PED 165 - Sport Science As a Career **Credits: 3**

- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**
- WBL 121 - Work-Based Learning II **Credits: 1**

**Electives** (3 credits)

- ACA 122 - College Transfer Success **Credits: 1**
- BIO 111 - General Biology I **Credits: 4**
- HEA 130 - Health-Adult Sexuality **Credits: 3**
- PED 113 - Aerobics I **Credits: 1**
- PED 119 - Circuit Training **Credits: 1**
- PSY 271 - Sports Psychology **Credits: 3**

**Total Credits: 69-71**

**Semester Sequence**

**Semester Sequence**

**Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- HFS 110 - Exercise Science **Credits: 4**
- HFS 111 - Fitness & Exer Testing I **Credits: 4**
- PED 165 - Sport Science As a Career **Credits: 3**
- PED 110 - Fit and Well for Life **Credits: 2**

**Spring I**

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- HFS 116 - Pvnt & Care Exer Injuries **Credits: 3**
- HFS 120 - Group Exer Instruction **Credits: 3**
- Natural Science/Mathematics Elective **Credits: 3**
- PED 117 - Weight Training I **Credits: 1**
- PED Elective **Credits: 3**

**Summer I**

- BIO 169 - Anatomy and Physiology II **Credits: 4**

- HFS 210 - Personal Training **Credits: 3**
- PED 118 - Weight Training II **Credits: 1**
- HEA 112 - First Aid & CPR **Credits: 2**

**Students will be eligible to sit for the NASM Certified Personal Trainer Exam**

**Students will be eligible to sit for the AFAA Certified Group Fitness Instructor Exam**

## **Fall II**

- HFS 118 - Fitness Facility Mgmt **Credits: 4**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**
- Humanities/Fine Arts Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

## **Spring II**

- BIO 155 - Nutrition **Credits: 3**
- HFS 212 - Exercise Programming **Credits: 3**
- HFS 218 - Lifestyle Chng & Wellness **Credits: 4**
- WBL 121 - Work-Based Learning II **Credits: 1**
- Additional Elective As Needed

# **A45630E - Health and Fitness Science - Exercise Science**

## **Overview**

### **Department Title      Program Code**

Health & Fitness Science      A45630E

### **Program Description**

The Health and Fitness Science program is designed to provide students with the knowledge and skills necessary for employment in the fitness and exercise industry.

Students will be trained in exercise science and be able to administer basic fitness tests and health risk appraisals, teach specific exercise and fitness classes and provide instruction in the proper use of exercise equipment and facilities.

Graduates should qualify for employment opportunities in commercial fitness clubs, YMCA's/ YWCA's, wellness programs in business and industry, Parks & Recreation Departments and other organizations implementing exercise & fitness programs.

### **Degree**

Associate in Applied Science

## **Program of Study**

### **Program Requirements**

#### **General Education Requirements (19 credits)**

**Communications** (Take 6 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**



- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### **Natural Science/Math (Take 4 credits)**

- MAT 171 - Precalculus Algebra **Credits: 4**

#### **Social/Behavioral Science (Take 6 credits)**

- PSY 150 - General Psychology **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**

### **Major Requirements (41 credits)**

- BIO 155 - Nutrition **Credits: 3**
- HEA 112 - First Aid & CPR **Credits: 2**
- HFS 110 - Exercise Science **Credits: 4**
- HFS 111 - Fitness & Exer Testing I **Credits: 4**
- HFS 116 - Pvnt & Care Exer Injuries **Credits: 3**
- HFS 118 - Fitness Facility Mgmt **Credits: 4**
- HFS 120 - Group Exer Instruction **Credits: 3**
- HFS 210 - Personal Training **Credits: 3**
- HFS 212 - Exercise Programming **Credits: 3**
- HFS 218 - Lifestyle Chng & Wellness **Credits: 4**

#### **Anatomy & Physiology (Take 8 credits)**

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

### **Other Major Hours (16 credits)**

- ACA 122 - College Transfer Success **Credits: 1**
- BIO 111 - General Biology I **Credits: 4**
- PED 110 - Fit and Well for Life **Credits: 2**
- PED 113 - Aerobics I **Credits: 1**
- PED 117 - Weight Training I **Credits: 1**
- PED 118 - Weight Training II **Credits: 1**
- PED 119 - Circuit Training **Credits: 1**
- PSY 271 - Sports Psychology **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**

- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

## **Total Credits: 76**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- HFS 110 - Exercise Science **Credits: 4**
- HFS 111 - Fitness & Exer Testing I **Credits: 4**
- PED 110 - Fit and Well for Life **Credits: 2**
- ACA 122 - College Transfer Success **Credits: 1**
- SOC 220 - Social Problems **Credits: 3**

#### **Spring I**

- BIO 111 - General Biology I **Credits: 4**
- HFS 116 - Pvnt & Care Exer Injuries **Credits: 3**
- HFS 120 - Group Exer Instruction **Credits: 3**
- PED 117 - Weight Training I **Credits: 1**
- MAT 171 - Precalculus Algebra **Credits: 4**
- PED 113 - Aerobics I **Credits: 1 or**
- PED 119 - Circuit Training **Credits: 1**

#### **Summer I**

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- PED 118 - Weight Training II **Credits: 1**
- PSY 150 - General Psychology **Credits: 3**
- HEA 112 - First Aid & CPR **Credits: 2**
- HFS 210 - Personal Training **Credits: 3**

**Students will be eligible to sit for the NASM Certified Personal Trainer Exam**

**Students will be eligible to sit for the AFAA Certified Group Fitness Instructor Exam**

#### **Fall II**

- HFS 118 - Fitness Facility Mgmt **Credits: 4**

- BIO 169 - Anatomy and Physiology II **Credits: 4**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- PSY 271 - Sports Psychology **Credits: 3**

## Spring II

- BIO 155 - Nutrition **Credits: 3**
- HFS 212 - Exercise Programming **Credits: 3**
- HFS 218 - Lifestyle Chng & Wellness **Credits: 4**
- Humanities/Fine Arts Elective **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**
- PED 113 - Aerobics I **Credits: 1 or**
- PED 119 - Circuit Training **Credits: 1**

# A45630H - Health and Fitness Science - Healthful Living & Fitness Education

## Overview

| Department Title         | Program Code |
|--------------------------|--------------|
| Health & Fitness Science | A45630H      |

## Program Description

The Health and Fitness Science program is designed to provide students with the knowledge and skills necessary for employment in the fitness and exercise industry.

Students will be trained in exercise science and be able to administer basic fitness tests and health risk appraisals, teach specific exercise and fitness classes and provide instruction in the proper use of exercise equipment and facilities.

Graduates should qualify for employment opportunities in commercial fitness clubs, YMCA's/ YWCA's, wellness programs in business and industry, Parks & Recreation Departments and other organizations implementing exercise & fitness programs.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

### General Education Requirements (16 credits)

**Communications** (Take 6 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**

- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Science/Math Electives** (Take 4 credits)

- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Electives** (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**

**Major Requirements (41 credits)**

**Required** (33 credits)

- BIO 155 - Nutrition **Credits: 3**
- HEA 112 - First Aid & CPR **Credits: 2**
- HFS 110 - Exercise Science **Credits: 4**
- HFS 111 - Fitness & Exer Testing I **Credits: 4**
- HFS 116 - Pvnt & Care Exer Injuries **Credits: 3**
- HFS 118 - Fitness Facility Mgmt **Credits: 4**
- HFS 120 - Group Exer Instruction **Credits: 3**
- HFS 210 - Personal Training **Credits: 3**
- HFS 212 - Exercise Programming **Credits: 3**
- HFS 218 - Lifestyle Chng & Wellness **Credits: 4**

**Anatomy & Physiology** (Take 8 credits)

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

**Other Major Requirements (9 credits)**

- PED 110 - Fit and Well for Life **Credits: 2**
- PED 117 - Weight Training I **Credits: 1**
- PED 118 - Weight Training II **Credits: 1**
- PED 165 - Sport Science As a Career **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**

- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

**Electives** (Take 6 credits)

- ACA 122 - College Transfer Success **Credits: 1**
- PED 113 - Aerobics I **Credits: 1**
- PED 119 - Circuit Training **Credits: 1**
- HEA 130 - Health-Adult Sexuality **Credits: 3**

**Total Credits: 72**

**Semester Sequence**

**Semester Sequence**

**Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- HFS 110 - Exercise Science **Credits: 4**
- HFS 111 - Fitness & Exer Testing I **Credits: 4**
- PED 110 - Fit and Well for Life **Credits: 2**
- PED 165 - Sport Science As a Career **Credits: 3**
- ACA 122 - College Transfer Success **Credits: 1**

**Spring I**

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- HEA 130 - Health-Adult Sexuality **Credits: 3**
- HFS 116 - Pvnt & Care Exer Injuries **Credits: 3**
- HFS 120 - Group Exer Instruction **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**
- PED 113 - Aerobics I **Credits: 1 or**
- PED 119 - Circuit Training **Credits: 1**
- PED 117 - Weight Training I **Credits: 1**

**Summer I**

- BIO 169 - Anatomy and Physiology II **Credits: 4**
- HEA 112 - First Aid & CPR **Credits: 2**
- HFS 210 - Personal Training **Credits: 3**

- PED 118 - Weight Training II **Credits: 1**

Students will be eligible to sit for the NASM Certified Personal Trainer Exam

Students will be eligible to sit for the AFAA Certified Group Fitness Instructor Exam

## Fall II

- COM 120 - Intro Interpersonal Com **Credits: 3**
- HFS 118 - Fitness Facility Mgmt **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- Humanities/Fine Arts Elective **Credits: 3**

## Spring II

- BIO 155 - Nutrition **Credits: 3**
- HFS 212 - Exercise Programming **Credits: 3**
- HFS 218 - Lifestyle Chng & Wellness **Credits: 4**
- PED 113 - Aerobics I **Credits: 1 or**
- PED 119 - Circuit Training **Credits: 1**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

# A45700 - Radiography

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Radiography      | A45700       |

## Program Description

The Radiography curriculum prepares the graduate to be a radiographer, a skilled health care professional who uses radiation to produce images of the human body.

Course work includes clinical rotations to area health care facilities, radiographic exposure, image processing, radiographic procedures, physics, pathology, patient care and management, radiation protection, quality assurance, anatomy and physiology, and radiobiology.

Graduates of accredited programs are eligible to apply to take the American Registry of Radiologic Technologists' national examination for certification and registration as medical radiographers. Graduates may be employed in hospitals, clinics, physicians' offices, medical laboratories, government agencies, and industry.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

### General Education Requirements (20 - 24 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

### **Communication Electives (Take 3 credits)**

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

### **Humanities/Fine Arts Electives (Take 3 credits)**

- HUM 115 - Critical Thinking **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

### **Math Electives (Take 3-4 credits)**

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

### **Natural Science Electives (Take 1 of 2 Groups)**

#### **Group I**

- BIO 163 - Basic Anat & Physiology **Credits: 5**

#### **Group II**

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

### **Social/Behavioral Science Electives (Take 3 credits)**

- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### **Major Requirements (50 credits)**

- RAD 110 - Rad Intro & Patient Care **Credits: 3**
- RAD 111 - RAD Procedures I **Credits: 4**
- RAD 112 - RAD Procedures II **Credits: 4**
- RAD 121 - Image Production I **Credits: 3**
- RAD 122 - Image Production II **Credits: 2**

- RAD 141 - Radiation Safety **Credits: 2**
- RAD 151 - RAD Clinical Ed I **Credits: 2**
- RAD 161 - RAD Clinical Ed II **Credits: 5**
- RAD 171 - RAD Clinical Ed III **Credits: 3**
- RAD 211 - RAD Procedures III **Credits: 3**
- RAD 231 - Image Production III **Credits: 2**
- RAD 251 - RAD Clinical Ed IV **Credits: 7**
- RAD 261 - RAD Clinical Ed V **Credits: 7**
- RAD 271 - Radiography Capstone **Credits: 3**

### **Other Major Requirements (4 credits)**

- RAD 113 - RAD Lab Elective **Credits: 1**
- RAD 182 - RAD Clinical Elective **Credits: 2**
- RAD 281 - RAD Clinical Elective **Credits: 1**

### **Total Credits: 74-78**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- RAD 110 - Rad Intro & Patient Care **Credits: 3**
- RAD 111 - RAD Procedures I **Credits: 4**
- RAD 151 - RAD Clinical Ed I **Credits: 2**
- RAD 182 - RAD Clinical Elective **Credits: 2**
- Natural Science Elective **Credits: 5-8**

#### **Spring I**

- RAD 112 - RAD Procedures II **Credits: 4**
- RAD 121 - Image Production I **Credits: 3**
- RAD 161 - RAD Clinical Ed II **Credits: 5**
- Communications Elective **Credits: 3**
- Math Elective **Credits: 3-4**

#### **Summer I**

- RAD 122 - Image Production II **Credits: 2**

- RAD 141 - Radiation Safety **Credits: 2**
- RAD 171 - RAD Clinical Ed III **Credits: 3**
- RAD 281 - RAD Clinical Elective **Credits: 1**

## Fall II

- RAD 211 - RAD Procedures III **Credits: 3**
- RAD 231 - Image Production III **Credits: 2**
- RAD 251 - RAD Clinical Ed IV **Credits: 7**
- Social/Behavioral Science Elective **Credits: 3**

## Spring II

- RAD 113 - RAD Lab Elective **Credits: 1**
- RAD 261 - RAD Clinical Ed V **Credits: 7**
- RAD 271 - Radiography Capstone **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

# A45740 - Surgical Technology

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Surgical Technology | A45740       |

## Program Description

The Surgical Technology curriculum prepares individuals to assist in the care of the surgical patient in the operating room and to function as a member of the surgical team.

Students will apply theoretical knowledge to the care of patients undergoing surgery and develop skills necessary to prepare supplies, equipment, and instruments; maintain aseptic conditions; prepare patients for surgery; and assist surgeons during operations.

Employment opportunities include labor/delivery/emergency departments, inpatient/outpatient surgery centers, dialysis units/facilities, physicians' offices, and central supply processing units.

Students of Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredited programs are required to take the national certification exam administered by the National Board on Certification in Surgical Technology and Surgical Assisting (NBSTSA) within a four week period prior to or after graduation.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (18 credits)

**Communications** (Take 6 credits)

**Group I** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Group II** (Take 3 credits)

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts** (Take 3 credits)

- HUM 115 - Critical Thinking **Credits: 3**

**Natural Science/Math** (Take 6 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- BIO 175 - General Microbiology **Credits: 3**

**Social/Behavioral Science** (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**

#### Major Requirements (37 credits)

- SUR 110 - Intro to Surg Tech **Credits: 3**
- SUR 111 - Periop Patient Care **Credits: 7**
- SUR 122 - Surgical Procedures I **Credits: 6**
- SUR 123 - Surgical Clinical Practice I **Credits: 7**
- SUR 134 - Surgical Procedures II **Credits: 5**
- SUR 135 - SUR Clinical Practice II **Credits: 4**
- SUR 137 - Professional Success Prep **Credits: 1**
- SUR 210 - Adv SUR Clinical Practice **Credits: 2**
- SUR 211 - Adv Theoretical Concepts **Credits: 2**

#### Other Major Requirements (14-17 credits)

- CIS 110 - Introduction to Computers **Credits: 3**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**

#### Take 1 of 2 groups

**Group I** (5 credits)

- BIO 163 - Basic Anat & Physiology **Credits: 5**

**Group II** (8 credits)

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

#### Total Credit Hours: 69-72

*Students must achieve a "C" or higher in each course in the curriculum in order to progress semester by semester and to graduate.*

## Semester Sequence

### Semester Sequence

#### Fall I

- BIO 163 - Basic Anat & Physiology **Credits: 5**
- MED 121 - Medical Terminology I **Credits: 3**
- SUR 110 - Intro to Surg Tech **Credits: 3**
- SUR 111 - Periop Patient Care **Credits: 7**

#### Spring I

- ENG 111 - Writing and Inquiry **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**
- SUR 122AB - Surgical Procedures I **Credits: 5**
- SUR 123AB - Surgical Clinical Practice I **Credits: 3.5**

#### Summer I

- HUM 115 - Critical Thinking **Credits: 3**



- CIS 110 - Introduction to Computers **Credits: 3**
- SUR 122BB - Surgical Procedures I **Credits: 1**
- SUR 123BB - Surgical Clinical Practice I **Credits: 3.5**

## Fall II

- BIO 175 - General Microbiology **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**
- SUR 134 - Surgical Procedures II **Credits: 5**
- SUR 135 - SUR Clinical Practice II **Credits: 4**

## Spring II

- COM 120 - Intro Interpersonal Com **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SUR 137 - Professional Success Prep **Credits: 1**
- SUR 210 - Adv SUR Clinical Practice **Credits: 2**
- SUR 211 - Adv Theoretical Concepts **Credits: 2**

# A45780 - Veterinary Medical Technology

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Veterinary Medical Technology | A45780       |

## Program Description

The Veterinary Medical Technology curriculum is designed to prepare individuals to assist veterinarians in preparing animals, equipment, and medications for examination and surgery; collecting specimens; performing laboratory, radiographic, anesthetic, dental procedures; assisting in surgery; and providing proper husbandry of animals and their environment.

Course work includes instruction in veterinary anatomy, nutrition, parasitology, pathology, physiology, radiology, terminology, zoology, office practices, laboratory techniques, dentistry, and small and large animal clinical practices.

Graduates of accredited programs may be eligible to take state and national examinations administered by the North Carolina Veterinary Medical Board.

Graduates may be employed in veterinary clinics; diagnostic, research, or pharmaceutical laboratories; zoos; academic institutions; or other areas associated with animal care.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

### General Education Requirements (19 credits)

Communications (Take 6 credits)

**Group I (Take 3 credits)**

- ENG 111 - Writing and Inquiry **Credits: 3**

**Group II (Take 3 credits)**

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives (Take 3 credits)**

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 210 - History of Philosophy **Credits: 3**

**Natural Sciences/Mathematics Electives (Take 2 groups)**

**Group I (Take 4 credits)**

- CHM 130 - Gen, Org, & Biochemistry **Credits: 3**
- CHM 130A - Gen, Org, & Biochem Lab **Credits: 1**

**Group II (Take 3-5 credits)**

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 175 - Precalculus **Credits: 5**

**Social/Behavioral Sciences Electives (Take 3 credits)**

- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**

**Major Requirements (50 credits)**

**Required Courses (Take 45 credits)**

- VET 110 - Animal Breeds and Husbandry **Credits: 3**

- VET 120 - Vet Anatomy & Physiology **Credits: 4**
- VET 123 - Veterinary Parasitology **Credits: 3**
- VET 125 - Veterinary Diseases I **Credits: 2**
- VET 126 - Veterinary Diseases II **Credits: 2**
- VET 131 - Vet Lab Techniques I **Credits: 3**
- VET 133 - Vet Clinical Practice I **Credits: 3**
- VET 137 - Vet Office Practices **Credits: 2**
- VET 211 - Vet Lab Techniques II **Credits: 3**
- VET 212 - Vet Lab Techniques III **Credits: 3**
- VET 213 - Vet Clinical Practice II **Credits: 4**
- VET 214 - Vet Clinical Practice III **Credits: 4**
- VET 215 - Veterinary Pharmacology **Credits: 3**
- VET 217 - Large Animal Clin Pract **Credits: 3**
- VET 237 - Animal Nutrition **Credits: 3**

**Work-Based Learning (Take 2 credits)**

- WBL 112 - Work-Based Learning I **Credits: 2**

**Medical Terminology (Take 3 credits)**

- VET 121 - Veterinary Medical Terminology **Credits: 3**

**Other Major Requirements (5 credits)**

- VET 122 - Veterinary Zoology **Credits: 4**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

**Total Credits: 74-76**

**Semester Sequence**

**Semester Sequence**

**Fall I**

- 
- VET 110 - Animal Breeds and Husbandry **Credits: 3**
- VET 121 - Veterinary Medical Terminology **Credits: 3**

- VET 122 - Veterinary Zoology **Credits: 4**
- ENG 111 - Writing and Inquiry **Credits: 3**
- Mathematics Elective **Credits: 3-5**

### Spring I

- CHM 130 - Gen, Org, & Biochemistry **Credits: 3**
- CHM 130A - Gen, Org, & Biochem Lab **Credits: 1**
- VET 120 - Vet Anatomy & Physiology **Credits: 4**
- VET 123 - Veterinary Parasitology **Credits: 3**
- Communications Elective **Credits: 3**

### Summer I

- VET 125 - Veterinary Diseases I **Credits: 2**
- VET 131 - Vet Lab Techniques I **Credits: 3**
- VET 133 - Vet Clinical Practice I **Credits: 3**
- VET 237 - Animal Nutrition **Credits: 3**

### Fall II

- VET 126 - Veterinary Diseases II **Credits: 2**
- VET 211 - Vet Lab Techniques II **Credits: 3**
- VET 213 - Vet Clinical Practice II **Credits: 4**
- VET 215 - Veterinary Pharmacology **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

### Spring II

- VET 137 - Vet Office Practices **Credits: 2**
- VET 212 - Vet Lab Techniques III **Credits: 3**
- VET 214 - Vet Clinical Practice III **Credits: 4**
- VET 217 - Large Animal Clin Pract **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

### Summer II

- WBL 112 - Work-Based Learning I **Credits: 2**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

## A50210 - Computer-Integrated Machining

### Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Computer-Integrated Machining | A50210       |

### Program 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.

### Degree

Associate in Applied Science

### Program of Study

### Program Requirements

### General Education Requirements

Take 9 credits

- COM 110 - Introduction to Communication **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

- MAT 121 - Algebra/Trigonometry I **Credits: 3**

### **Humanities/Fine Arts Electives**

Take 3 credits

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

### **Social/Behavioral Science Electives**

Take 3 credits

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### **Major Hours (20 credits)**

- MAC 111 - Machining Technology I **Credits: 6**
- MAC 112 - Machining Technology II **Credits: 6**
- MAC 121 - Intro to CNC **Credits: 2**
- MAC 122 - CNC Turning **Credits: 2**
- MAC 124 - CNC Milling **Credits: 2**
- MAC 131 - Blueprint Reading/Mach I **Credits: 2**

### **Other Major Hours (36 credits)**

- DFT 119 - Basic CAD **Credits: 2**
- MAC 113 - Machining Technology III **Credits: 6**
- MAC 132 - Blueprint Reading/Mach II **Credits: 2**
- MAC 152 - Adv Machining Calc **Credits: 2**

- MAC 222 - Advanced CNC Turning **Credits: 2**
- MAC 224 - Advanced CNC Milling **Credits: 2**
- MAC 233 - Appl in CNC Machining **Credits: 6**
- MAC 241 - Jigs & Fixtures I **Credits: 4**
- MAC 234- Adv Multi-Axis Machining **Credits: 3**
- MAC 234A - Adv Multi-Axis Machining Lab **Credits: 1**
- MEC 231 - Comp-Aided Manufact I **Credits: 3**
- MEC 232 - Comp-Aided Manufact II **Credits: 3**

**Total Credits: 71**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- COM 110 - Introduction to Communication **Credits: 3**
- MAC 111 - Machining Technology I **Credits: 6**
- MAC 121 - Intro to CNC **Credits: 2**
- MAC 131 - Blueprint Reading/Mach I **Credits: 2**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**

#### **Spring I**

- MAC 112 - Machining Technology II **Credits: 6**
- MAC 124 - CNC Milling **Credits: 2**
- MAC 132 - Blueprint Reading/Mach II **Credits: 2**
- Social/Behavioral Science Elective **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### **Summer I**

- DFT 119 - Basic CAD **Credits: 2**
- MAC 122 - CNC Turning **Credits: 2**
- MAC 152 - Adv Machining Calc **Credits: 2**
- MEC 231 - Comp-Aided Manufact I **Credits: 3**

## Fall II

- MAC 113 - Machining Technology III **Credits: 6**
- MAC 224 - Advanced CNC Milling **Credits: 2**
- MAC 241 - Jigs & Fixtures I **Credits: 4**
- MEC 232 - Comp-Aided Manufact II **Credits: 3**

## Spring II

- MAC 222 - Advanced CNC Turning **Credits: 2**
- MAC 233 - Appl in CNC Machining **Credits: 6**
- MAC 234- Adv Multi-Axis Machining **Credits: 3**
- MAC 234A - Adv Multi-Axis Machining Lab **Credits: 1**
- Humanities/Fine Arts Elective **Credits: 3**

# A50460 - Nuclear Technology

## Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Nuclear Technology | A50460       |

## Program Description

The Nuclear Technology curriculum prepares individuals to become qualified reactor field service technicians who conduct inspections and implement repairs and modifications to licensed nuclear facilities which have light water reactors that are shut down for refueling.

Course work includes theory and application related to industrial and engineering technology disciplines including nuclear reactor theory, boiling water reactor systems, quality control, industrial and nuclear safety, instrumentation, electrical generation, automation and robotics, welding, and various metallurgical inspection procedures. Upon completion, graduates should qualify as entry-level nuclear reactor service technicians and have academic preparations to advance into other industrial or engineering technician positions within the commercial nuclear power industry.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

**Communications** (Take 6 credits)

**Group I** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Group II** (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Sciences/Math Electives** (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Electives** (3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Major Requirements (30 credits)**

**Required** (Take 27 credits)

- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**
- ISC 130 - Intro to Quality Control **Credits: 3**
- NUC 110 - Nuclear Reactor Systems **Credits: 3**
- NUC 120 - Nuclear Reactor Theory **Credits: 4**

- NUC 130 - Applied NDE-Nuclear **Credits: 2**
- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**
- WLD 112 - Basic Welding Processes **Credits: 2**
- WLD 143 - Welding Metallurgy **Credits: 2**

**Computers** (3 credits)

- CIS 110 - Introduction to Computers **Credits: 3**

**Other Major Requirements (22 credits)**

**Required** (Take 13 credits)

- ELC 131 - Circuit Analysis I **Credits: 4**
- ISC 112 - Industrial Safety **Credits: 2**
- ISC 121 - Envir Health & Safety **Credits: 3**
- MEC 111 - Machine Processes I **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**

**Electives** (Take 6 credits)

- ATR 112 - Intro to Automation **Credits: 3**
- ELC 213 - Instrumentation **Credits: 4**
- ELC 230 - Wind & Hydro Power Sys **Credits: 3**
- MEC 130 - Mechanisms **Credits: 3**

**Engineering (Take 3 credits)**

- EGR 115 - Intro to Technology **Credits:**

**Total Credits: 67-68**

**Semester Sequence**

**Semester Sequence**

**Fall I**

- CIS 110 - Introduction to Computers **Credits: 3**
- EGR 115 - Intro to Technology **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- ISC 112 - Industrial Safety **Credits: 2**

- NUC 110 - Nuclear Reactor Systems **Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**

### Spring I

- ELC 131 - Circuit Analysis I **Credits: 4**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**
- Nuclear Technology Elective **Credits: 3**
- Social Behavioral Elective **Credits: 3**

### Summer I

- ISC 121 - Envir Health & Safety **Credits: 3**
- PHY 151 - College Physics I **Credits: 4**
- WLD 112 - Basic Welding Processes **Credits: 2**
- Nuclear Technology Elective **Credits: 3**

### Fall II

- Communications Elective **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- NUC 120 - Nuclear Reactor Theory **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**

### Spring II

- WBL 111N - Work-Based Learning I Nuc Tech **Credits: 1**

### Summer II

- ISC 130 - Intro to Quality Control **Credits: 3**
- MEC 111 - Machine Processes I **Credits: 3**
- NUC 130 - Applied NDE-Nuclear **Credits: 2**
- WLD 143 - Welding Metallurgy **Credits: 2**

## A55130 - Baking and Pastry Arts

### Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Baking and Pastry Arts | A55130       |

### Program Description

The Baking and Pastry Arts curriculum is designed to provide students with the skills and knowledge required for employment in the baking/pastry industry, including restaurants, hotels, independent bakeries/pastry shops, wholesale/retail markets, and high-volume bakeries, and/or further academic studies.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Course work includes specialty/artisanal breads, desserts/pastries, decorative work, high-volume production and food marketing.

Graduates should qualify for entry-level positions, such as pastry/bakery assistant, area pastry chef and assistant pastry chef. American Culinary Federation certification may be available to graduates.

### Degree

Associate in Applied Science

### Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**



- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Sciences/Math Electives** (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Electives** (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Major Requirements (25 credits)**

**Required** (Take 23 credits)

- BPA 150 - Artisan & Specialty Bread **Credits: 4**
- BPA 210 - Cake Design & Decorating **Credits: 3**

- BPA 250 - Dessert/Bread Production **Credits: 5**
- BPA 260 - Pastry & Baking Marketing **Credits: 3**
- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 160 - Baking I **Credits: 3**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**

**Work-Based Learning Electives** (Take 2 credits)

- WBL 111Y - Work-Based Learning I **Credits: 1**
- WBL 112Y - Work-Based Learning I **Credits: 2**  
*or*
- WBL 121Y - Work-Based Learning II **Credits: 1**

**Other Major Requirements (24 credits)**

- BPA 120 - Petit Fours & Pastries **Credits: 3**
- BPA 130 - European Cakes and Tortes **Credits: 3**
- BPA 165 - Hot and Cold Desserts **Credits: 3**
- BPA 220 - Confection Artistry **Credits: 3**
- BPA 230 - Chocolate Artistry **Credits: 3** *and*
- BPA 230A - Chocolate Artistry Lab **Credits: 1**
- BPA 240 - Plated Desserts **Credits: 3**
- CUL 260 - Baking II **Credits: 3**
- WBL 110 - World of Work **Credits: 1**
- WBL 115Y - Work-Based Learning Seminar **Credits: 1**

**Other Requirements (2 credits)**

- CIS 111 - Basic PC Literacy **Credits: 2**

**Total Credits: 66-67**

## Semester Sequence

### Semester Sequence

#### Fall I

- BPA 120 - Petit Fours & Pastries **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**
- CUL 110 - Sanitation & Safety **Credits: 2 and**
- CUL 160 - Baking I **Credits: 3**
- CUL 260 - Baking II **Credits: 3**

#### Spring I

- BPA 150 - Artisan & Specialty Bread **Credits: 4**
- BPA 165 - Hot and Cold Desserts **Credits: 3**
- BPA 210 - Cake Design & Decorating **Credits: 3**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Summer I

- WBL 115Y - Work-Based Learning Seminar I **Credits: 1 \***
- Humanities/Fine Arts Elective **Credits: 3**
- Social/Behav Science Elective **Credits: 3**
- Work-Based Learning Elective **Credits: 2**

#### Fall II

- BPA 130 - European Cakes and Tortes **Credits: 3**
- BPA 220 - Confection Artistry **Credits: 3**
- BPA 240 - Plated Desserts **Credits: 3**
- WBL 110 - World of Work **Credits: 1**
- Communications Elective **Credits: 3**

#### Spring II

- BPA 230 - Chocolate Artistry **Credits: 3 and**
- BPA 230A - Chocolate Artistry Lab **Credits: 1**

- BPA 250 - Dessert/Bread Production **Credits: 5**
- MAT 110 - Math Measurement & Literacy **Credits: 3**
- BPA 260 - Pastry & Baking Marketing **Credits: 3**

*Note: Students may take WBL 112Y (320 hrs) in lieu of taking WBL 111Y (160 hrs) and WBL 121Y (160 hrs).*

# A55140 - Cosmetology

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Cosmetology      | A55140       |

### Program 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.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Elective (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

Natural Sciences/Math Electives (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

Social/Behavioral Sciences Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**

- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### **Major Requirements (34 credits)**

- COS 111 - Cosmetology Concepts I **Credits: 4**
- COS 112 - Salon I **Credits: 8**
- COS 113 - Cosmetology Concepts II **Credits: 4**
- COS 114 - Salon II **Credits: 8**
- COS 115 - Cosmetology Concepts III **Credits: 4**
- COS 116 - Salon III **Credits: 4**
- COS 117 - Cosmetology Concepts IV **Credits: 2**

### **Other Major Requirements (17 credits)**

- COS 118 - Salon IV **Credits: 7**
- COS 223 - Contemp Hair Coloring **Credits: 2**
- COS 224 - Trichology & Chemistry **Credits: 2**
- COS 240 - Contemporary Design **Credits: 2**
- COS 260 - Design Applications **Credits: 2**
- CIS 111 - Basic PC Literacy **Credits: 2**

**Total Credits: 66-67**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- COS 111 - Cosmetology Concepts I **Credits: 4**
- COS 112 - Salon I **Credits: 8**

#### **Spring I**

- COS 113 - Cosmetology Concepts II **Credits: 4**
- COS 114 - Salon II **Credits: 8**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### **Summer I**

- COS 115 - Cosmetology Concepts III **Credits: 4**
- COS 116 - Salon III **Credits: 4**
- COS 224 - Trichology & Chemistry **Credits: 2**

#### **Fall II**

- COS 117 - Cosmetology Concepts IV **Credits: 2**
- COS 118 - Salon IV **Credits: 7**
- Humanities/Fine Arts Elective **Credits: 3**
- Communications Elective **Credits: 3**

#### **Spring II**

- COS 223 - Contemp Hair Coloring **Credits: 2**
- COS 240 - Contemporary Design **Credits: 2**
- COS 260 - Design Applications **Credits: 2**
- CIS 111 - Basic PC Literacy **Credits: 2**
- Social/Behavioral Science Elective **Credits: 3**
- Natural Science/Math Elective **Credits: 3**

# A55150 - Culinary Arts

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Culinary Arts    | A55150       |

## Program Description

The Culinary Arts curriculum provides specific training required to prepare students to assume positions as trained culinary professionals in a variety of foodservice settings including full service restaurants, hotels, resorts, clubs, catering operations, contract foodservice and health care facilities.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Courses include sanitation/safety, baking, garde manger, culinary fundamentals/production skills, nutrition, customer service, purchasing/cost control, and human resource management.

Graduates should qualify for entry-level opportunities including prep cook, line cook, and station chef. American Culinary Federation certification may be available to graduates. With experience, graduates may advance to positions including sous chef, pastry chef, executive chef, or foodservice manager.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (18-19 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Communications Electives (Take 6 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Natural Sciences/Math Elective (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

#### Social/Behavioral Science Electives (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### **Major Requirements (32 credits)**

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 140 - Culinary Skills I **Credits: 5**
- CUL 160 - Baking I **Credits: 3**
- CUL 170 - Garde Manger I **Credits: 3**
- CUL 240 - Culinary Skills II **Credits: 5**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**

#### **Customer Service (Take 3 credits)**

- HRM 124 - Guest Service Management **Credits: 3**

#### **Nutrition (Take 3 credits)**

- CUL 112 - Nutrition for Foodservice **Credits: 3**

#### **Purchasing/Cost Control (Take 3 credits)**

- HRM 260 - Procurement for Hosp **Credits: 3**

#### **Work Based Learning (Take 2 credits)**

- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 112 - Work-Based Learning I **Credits: 2**
- WBL 121 - Work-Based Learning II **Credits: 1**

### **Other Major Requirements (20 credits)**

- CIS 111 - Basic PC Literacy **Credits: 2**
- CUL 130 - Menu Design **Credits: 2**

- CUL 150 - Food Science **Credits: 2**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

#### **Culinary Electives I (Take 5 credits)**

- CUL 230 - Global Cuisines **Credits: 5**
- CUL 245 - Contemporary Cuisines **Credits: 5**
- CUL 250 - Classical Cuisine **Credits: 5**

#### **Culinary Electives II (Take 5 credits)**

- CUL 260 - Baking II **Credits: 3**
- CUL 270 - Garde Manger II **Credits: 3**
- CUL 275 - Catering Cuisine **Credits: 5**
- CUL 280 - Pastry & Confections **Credits: 3**
- CUL 283 - Farm-To-Table **Credits: 5**
- CUL 285 - Competition Fundamentals **Credits: 3**
- HRM 225 - Beverage Management **Credits: 3**
- WBL 125 - Work-Based Learning Seminar II **Credits: 1**
- WBL 131 - Work-Based Learning III **Credits: 1**

### **Other Required Course (1 Credit)**

- WBL 110 - World of Work **Credits: 1**

## **Total Credits: 71**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 140 - Culinary Skills I **Credits: 5**
- CUL 150 - Food Science **Credits: 2**
- CUL 160 - Baking I **Credits: 3**
- Nutrition Elective **Credits: 3**

## Spring I

- CUL 170 - Garde Manger I **Credits: 3**
- CUL 240 - Culinary Skills II **Credits: 5**
- ENG 111 - Writing and Inquiry **Credits: 3**
- Social /Behavioral Science Elective **Credits: 3**

## Summer I

- Communications Elective **Credits: 6**
- CIS 111 - Basic PC Literacy **Credits: 2**
- WBL 111 - Work-Based Learning I Culinary **Credits: 1 or**
- WBL 112 - Work-Based Learning I **Credits: 2\***
- WBL 115 - Work- Based Learning Seminar I **Credits: 1**
- Natural Science/Math Elective **Credits: 3**

## Fall II

- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 260 - Procurement for Hosp **Credits: 3**
- HRM 124 - Guest Service Management **Credits: 3**
- WBL 110 - World of Work **Credits: 1**
- Culinary Arts Elective I

## Spring II

- CUL 130 - Menu Design **Credits: 2**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**
- WBL 121 - Work-Based Learning II **Credits: 1**  
\*
- WBL 125 - Work-Based Learning Seminar II **Credits: 1**
- Culinary Arts Elective II
- Humanities/Fine Arts Elective **Credits: 3**

**Note:** Students may take WBL 112K (320 hrs) in lieu of taking WBL 111K (160 hrs) & WBL 121K (160 hrs)

# A55180 - Criminal Justice Technology

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Criminal Justice Technology | A55180       |

## Program 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.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

**Communications** (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**  
*and*



- ENG 112 - Writing/Research in the Disc **Credits: 3**  
*or*
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- HUM 220 - Human Values and Meaning **Credits: 3**
- HUM 230 - Leadership Development **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**

**Math/Science Electives** (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**

**Social/Behavioral Sciences Electives** (Take 3 credits)

- HIS 132 - American History II **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 230 - Race and Ethnic Relations **Credits: 3**

**Major Requirements (22 credits)**

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 112 - Criminology **Credits: 3**
- CJC 113 - Juvenile Justice **Credits: 3**
- CJC 131 - Criminal Law **Credits: 3**
- CJC 212 - Ethics & Comm Relations **Credits: 3**
- CJC 221 - Investigative Principles **Credits: 4**
- CJC 231 - Constitutional Law **Credits: 3**

**Other Major Requirements (28 credits)**

**Required** (Take 9 credits)

- CJC 121 - Law Enforcement Operations **Credits: 3**
- CJC 141 - Corrections **Credits: 3**

- PSY 150 - General Psychology **Credits: 3**

**Required Language Electives** (Take 3 credits)

- ASL 111 - Elementary ASL I **Credits: 3**
- SPA 111 - Elementary Spanish I **Credits: 3**

**Required Science Electives** (Take 4 credits)

- BIO 110 - Principles of Biology **Credits: 4**
- BIO 111 - General Biology I **Credits: 4**

**Required Communication Electives** (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

**Required Computer Electives** (Take 3 credits)

- CIS 110 - Introduction to Computers **Credits: 3**
- CCT 110 - Intro to Cyber Crime **Credits: 3**

**Additional Electives** (Take 6 credits)

- BUS 110 - Introduction to Business **Credits: 3**
- BUS 253 - Leadership and Mgt Skills **Credits: 3**
- CJC 114 - Investigative Photography **Credits: 2**
- CJC 120 - Interviews/Interrogations **Credits: 2**
- CJC 122 - Community Policing **Credits: 3**
- CJC 132 - Court Procedure & Evidence **Credits: 3**
- CJC 160 - Terrorism: Underlying Issu **Credits: 3**
- CJC 213 - Substance Abuse **Credits: 3**
- CJC 214 - Victimology **Credits: 3**
- CJC 215 - Organization & Administration **Credits: 3**
- CJC 222 - Criminalistics **Credits: 3**
- CJC 225 - Crisis Intervention **Credits: 3**
- CJC 240 - Law Enfor Mgt. & Supervis **Credits: 3**

- LEX 160 - Criminal Law & Procedure **Credits: 3**
- PED 110 - Fit and Well for Life **Credits: 2**
- POL 120 - American Government **Credits: 3**
- PSY 281 - Abnormal Psychology **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

**Total Credits: 65-66**

## Semester Sequence

### Semester Sequence

#### Fall I

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 131 - Criminal Law **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- Required Language **Credits: 3**

#### Spring I

- BIO 110 - Principles of Biology **Credits: 4 or**
- BIO 111 - General Biology I **Credits: 4**
- CIS 110 - Introduction to Computers **Credits: 3**
- CJC 112 - Criminology **Credits: 3**
- CJC 113 - Juvenile Justice **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### Summer I

- CJC 121 - Law Enforcement Operations **Credits: 3**
- CJC 141 - Corrections **Credits: 3**
- CJC 231 - Constitutional Law **Credits: 3**
- Criminal Justice Elective **Credits: 1-3**

#### Fall II

- COM 231 - Public Speaking **Credits: 3**

- CJC 221 - Investigative Principles **Credits: 4**
- ENG 112 - Writing/Research in the Disc **Credits: 3 or**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- Social/Behavioral Sciences Elective **Credits: 3**

#### Spring II

- PSY 150 - General Psychology **Credits: 3**
- Criminal Justice Tech Elective **Credits: 1-3**
- CJC 212 - Ethics & Comm Relations **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**

# A55210 - Cyber Crime Technology

## Overview

### Department Title      Program Code

Cyber Crime Technology      A55210

### Program Description

The Cyber Crime Technology curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals.

Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes.

Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also these graduates should be competent to serve as computer security specialists or consultants with private business.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

**English** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Communications Elective** (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Elective** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Mathematics Elective** (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Elective** (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**

- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### Major Requirements (16 hours)

- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CCT 112 - Ethics & High Technology **Credits: 3**
- CCT 121 - Computer Crime Invest. **Credits: 4**
- CCT 231 - Technology Crimes & Law **Credits: 3**
- CCT 289 - Capstone Project **Credits: 3**

### Other Major Requirements (37 hours)

#### Other Major Hours (Take 34 credits)

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- CCT 251 - Network Vulnerabilities II **Credits: 3**
- CET 130 - Operating System Prin **Credits: 3**
- CET 150 - Computer Forensics I **Credits: 3**
- CET 250 - Computer Forensics II **Credits: 3**
- CJC 131 - Criminal Law **Credits: 3**
- CJC 221 - Investigative Principles **Credits: 4**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- NET 110 - Networking Concepts **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

#### Electives (Take 3 credits)

- CCT 260 - Mobile Phone Examination **Credits: 3**
- CSC 121 - Python Programming **Credits: 3**
- CTI 175 - Intro to Wireless Technology **Credits: 3**

- CTS 288 - Professional Practices in IT **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- SEC 160 - Security Administration I **Credits: 3**
- SEC 175 - Perimeter Defense **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 112 - Work-Based Learning I **Credits: 2**

**Total Credits: 68-69**

## Semester Sequence

### Semester Sequence

#### Fall I

- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CCT 112 - Ethics & High Technology **Credits: 3**
- CET 130 - Operating System Prin **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- NET 110 - Networking Concepts **Credits: 3**

#### Spring I

- CCT 121 - Computer Crime Invest. **Credits: 4**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CCT 231 - Technology Crimes & Law **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- Communications Elective **Credits: 3**

#### Summer I

- CTS 220 - Adv Hard/Software Support **Credits: 3**
- CET 150 - Computer Forensics I **Credits: 3**
- Mathematics Elective **Credits: 3-4**

#### Fall II

- CJC 131 - Criminal Law **Credits: 3**

- CET 250 - Computer Forensics II **Credits: 3**
- Cyber Crime Elective **Credits: 3**
- CCT 250 - Network Vulnerabilities I **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

## Spring II

- CCT 251 - Network Vulnerabilities II **Credits: 3**
- CCT 289 - Capstone Project **Credits: 3**
- CJC 221 - Investigative Principles **Credits: 4**
- Social/Behavioral Science Elective **Credits: 3**

# A55210CS - Cyber Crime Technology - Cyber Security

## Overview

### Department Title      Program Code

Cyber Crime Technology      A55210CS

### Program Description

The Cyber Crime Technology curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals.

Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes.

Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also these graduates should be competent to serve as computer security specialists or consultants with private business.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Elective (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### **Humanities/Fine Arts Elective (Take 3 credits)**

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### **Mathematics Elective (Take 3-4 credits)**

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

#### **Social/Behavioral Science Elective (Take 3 credits)**

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**

- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### **Major Requirements (Take 16 credits)**

- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CCT 112 - Ethics & High Technology **Credits: 3**
- CCT 121 - Computer Crime Invest. **Credits: 4**
- CCT 231 - Technology Crimes & Law **Credits: 3**
- CCT 289 - Capstone Project **Credits: 3**

#### **Other Major Requirements (Take 34-36 credits)**

##### **Required (Take 33 credits)**

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- CCT 251 - Network Vulnerabilities II **Credits: 3**
- CET 130 - Operating System Prin **Credits: 3**
- CSC 121 - Python Programming **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- NET 110 - Networking Concepts **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- SEC 160 - Security Administration I **Credits: 3**

##### **Electives (Take 1-3 credits)**

- CTI 175 - Intro to Wireless Technology **Credits: 3**
- CTS 288 - Professional Practices in IT **Credits: 3**

- SEC 175 - Perimeter Defense **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 112 - Work-Based Learning I **Credits: 2**

**Total Credits: 65-68**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CCT 112 - Ethics & High Technology **Credits: 3**
- CET 130 - Operating System Prin **Credits: 3**
- NET 110 - Networking Concepts **Credits: 3**

#### Spring I

- Communications Elective **Credits: 3**
- CCT 121 - Computer Crime Invest. **Credits: 4**
- CCT 231 - Technology Crimes & Law **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

#### Summer I

- CTS 220 - Adv Hard/Software Support **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**
- Mathematics Elective **Credits: 3-4**

#### Fall II

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- CSC 121 - Python Programming **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- SEC 160 - Security Administration I **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

#### Spring II

- CCT 251 - Network Vulnerabilities II **Credits: 3**
- CCT 289 - Capstone Project **Credits: 3**
- Social/Behavioral Science Elective :**Credits: 3**
- Cyber Crime Elective **Credits:1-3**



# A55220C - Early Childhood Education - Career Track

## Overview

### Department Title      Program Code

Early Childhood Associate    A55220C

### Program 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.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15 credits)

##### Communications (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

##### Humanities/Fine Arts Elective (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Natural Science/Math (Take 3 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**

##### Social/Behavioral Science (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**

### Major Requirements (38 credits)

- EDU 119 - Intro to Early Child Education **Credits: 4**
- EDU 131 - Child, Family, and Community **Credits: 3**
- EDU 144 - Child Development I **Credits: 3**
- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 151 - Creative Activities **Credits: 3**
- EDU 153 - Health, Safety and Nutrition **Credits: 3**
- EDU 221 - Children With Exceptionalities **Credits: 3**
- EDU 234 - Infants, Toddlers, and Twos **Credits: 3**
- EDU 280 - Language/Literacy Experiences **Credits: 3**
- EDU 284 - Early Child Capstone Prac **Credits: 4**
- SOC 210 - Introduction to Sociology **Credits: 3**

### Other Major Requirements (16 credits)

- EDU 162 - Observe & Assess in ECE **Credits: 3**
- EDU 234A - Infants/Toddlers and Twos Lab **Credits: 1**

- EDU 251 - Exploration Activities **Credits: 3**
- EDU 259 - Curriculum Planning **Credits: 3**
- EDU 261 - Early Childhood Admin I **Credits: 3**
- EDU 262 - Early Childhood Admin II **Credits: 3**

**Total Credits: 69**

## Semester Sequence

### Semester Sequence

#### Fall I

- EDU 119 - Intro to Early Child Education **Credits: 4**
- EDU 131 - Child, Family, and Community **Credits: 3**
- EDU 144 - Child Development I **Credits: 3**
- EDU 151 - Creative Activities **Credits: 3**
- EDU 162 - Observation and Assessment in ECE **Credits: 3**

#### Spring I

- ENG 111 - Writing and Inquiry **Credits: 3**
- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 153 - Health, Safety and Nutrition **Credits: 3**
- EDU 234 - Infants, Toddlers, and Twos **Credits: 3**
- EDU 234A - Infants/Toddlers and Twos Lab **Credits: 1**

#### Summer I

- EDU 221 - Children With Exceptionalities **Credits: 3**
- EDU 259 - Curriculum Planning **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 6**

#### Fall II

- EDU 251 - Exploration Activities **Credits: 3**

- EDU 261 - Early Childhood Admin I **Credits: 3**
- EDU 262 - Early Childhood Admin II **Credits: 3**
- EDU 280 - Language/Literacy Experiences **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**

#### Spring II

- EDU 284 - Early Child Capstone Prac **Credits: 4**
- COM 231 - Public Speaking **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

# A55220L - Early Childhood Education - B-K Licensure Transfer

## Overview

### Department Title      Program Code

Early Childhood Associate    A55220L

### Program 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.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15 credits)

##### Communications (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

##### Humanities/Fine Arts Elective (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Natural Science/Math (Take 3 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**

##### Social/Behavioral Science (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**

### Major Requirements (58 credits)

- EDU 119 - Intro to Early Child Education **Credits: 4**
- EDU 131 - Child, Family, and Community **Credits: 3**
- EDU 144 - Child Development I **Credits: 3**
- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 151 - Creative Activities **Credits: 3**
- EDU 153 - Health, Safety and Nutrition **Credits: 3**
- EDU 216 - Foundations of Education **Credits: 3**
- EDU 221 - Children With Exceptionalities **Credits: 3**
- EDU 234 - Infants, Toddlers, and Twos **Credits: 3**
- EDU 250 - Teacher Licensure Preparation **Credits: 3**
- EDU 259 - Curriculum Planning **Credits: 3**
- EDU 280 - Language/Literacy Experiences **Credits: 3**
- EDU 284 - Early Child Capstone Prac **Credits: 4**

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- BIO 110 - Principles of Biology **Credits: 4**
- GEL 111 - Geology **Credits: 4**

**Total Credits: 73**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- EDU 119 - Intro to Early Child Education **Credits: 4**
- EDU 131 - Child, Family, and Community **Credits: 3**
- EDU 144 - Child Development I **Credits: 3**
- EDU 151 - Creative Activities **Credits: 3**

#### Spring I

- BIO 110 - Principles of Biology **Credits: 4**
- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 153 - Health, Safety and Nutrition **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**

#### Summer I

- Humanities/Fine Arts Elective **Credits: 3**
- EDU 221 - Children With Exceptionalities **Credits: 3**

#### Fall II

- EDU 216 - Foundations of Education **Credits: 3**
- EDU 280 - Language/Literacy Experiences **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

- MAT 143 - Quantitative Literacy **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Spring II

- COM 231 - Public Speaking **Credits: 3**
- EDU 234 - Infants, Toddlers, and Twos **Credits: 3**
- EDU 250 - Teacher Licensure Preparation **Credits: 3**
- EDU 284 - Early Child Capstone Prac **Credits: 4**

# A55220NL - Early Childhood Education - Non-Licensure Transfer

## Overview

### Department Title      Program Code

Early Childhood Associate    A55220NL

### Program 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.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15 credits)

**Communications** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Humanities/Fine Arts Electives** (Take 6 credits)

- ART 111 - Art Appreciation **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Science/Math** (Take 3 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**

**Social/Behavioral Science** (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**

#### Major Requirements (55 credits)

- EDU 119 - Intro to Early Child Education **Credits: 4**
- EDU 131 - Child, Family, and Community **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 151 - Creative Activities **Credits: 3**
- EDU 153 - Health, Safety and Nutrition **Credits: 3**
- EDU 221 - Children With Exceptionalities **Credits: 3**
- EDU 234 - Infants, Toddlers, and Twos **Credits: 3**
- EDU 280 - Language/Literacy Experiences **Credits: 3**
- EDU 284 - Early Child Capstone Prac **Credits: 4**
- BIO 110 - Principles of Biology **Credits: 4**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- GEL 111 - Geology **Credits: 4**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Child Development** (Take 6 credits)

- EDU 144 - Child Development I **Credits: 3**

- EDU 145 - Child Development II **Credits: 3**

**Transfer Specialty** (Choose one group; 6 credits)

**Group I**

- EDU 261 - Early Childhood Admin I **Credits: 3**
- EDU 262 - Early Childhood Admin II **Credits: 3**

**Group II**

- EDU 216 - Foundations of Education **Credits: 3**
- EDU 250 - Teacher Licensure Preparation **Credits: 3**

**Other Major Hours (4 credits)**

- EDU 234A - Infants/Toddlers and Twos Lab **Credits: 1**
- EDU 259 - Curriculum Planning **Credits: 3**

**Total Credits: 74**

## Semester Sequence

### Semester Sequence

**Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- EDU 119 - Intro to Early Child Education **Credits: 4**
- EDU 131 - Child, Family, and Community **Credits: 3**
- EDU 144 - Child Development I **Credits: 3**
- EDU 151 - Creative Activities **Credits: 3**

**Spring I**

- BIO 110 - Principles of Biology **Credits: 4**
- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 153 - Health, Safety and Nutrition **Credits: 3**
- EDU 234 - Infants, Toddlers & Twos **Credits: 3**

- EDU 234A - Infants/Toddlers and Twos Lab **Credits: 1**

**Summer I**

- EDU 221 - Children With Exceptionalities **Credits: 3**
- EDU 259 - Curriculum Planning **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 6**

**Fall II**

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- EDU 261 - Early Childhood Admin I **Credits: 3**
- EDU 262 - Early Childhood Admin II **Credits: 3**
- EDU 280 - Language/Literacy Experiences **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**

**Spring II**

- EDU 284 - Early Child Capstone Prac **Credits: 4**
- GEL 111 - Geology **Credits: 4**
- SOC 210 - Introduction to Sociology **Credits: 3**

# A55240 - Fire Protection Technology

## Overview

### Department Title      Program Code

Fire Protection Technology A55240

### Program Description

The Fire Protection Technology curriculum is designed to provide individuals with technical and professional knowledge to make decisions regarding fire protection for both public and private sectors. It also provides a sound foundation for continuous higher learning in fire protection, administration, and management.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of fire protection. Students will learn technical and administrative skills such as hydraulics, hazardous materials, arson investigation, fire protection safety, fire suppression management, law, and codes.

Graduates should qualify for employment or advancement in governmental agencies, industrial firms, insurance rating organizations, educational organizations, and municipal fire departments. Employed persons should have opportunities for skilled and supervisory-level positions within their current organizations.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Communication Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Comm **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Humanities Fine Arts Elective (Take 3 credits)

- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Natural Sciences/Math Elective (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

#### Social/Behavioral Sciences Elective (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**



- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

### **Major Requirements (18 credits)**

- FIP 120 - Intro to Fire Protection **Credits: 3**
- FIP 124 - Fire Prevention & Public Ed **Credits: 3**
- FIP 132 - Building Construction **Credits: 3**
- FIP 152 - Fire Protection Law **Credits: 3**
- FIP 220 - Fire Fighting Strategies **Credits: 3**
- FIP 228 - Local Govt Finance **Credits: 3**

### **Other Major Requirements (33 credits)**

- CIS 110 - Introduction to Computers **Credits: 3**
- EPT 140 - Emergency Management **Credits: 3**
- FIP 128 - Detection & Investigation **Credits: 3**
- FIP 136 - Inspections & Codes **Credits: 3**
- FIP 162 - Firefighter Safety & Wellness **Credits: 3**
- FIP 164 - OSHA Standards **Credits: 3**
- FIP 221 - Adv Fire Fighting Strat **Credits: 3**
- FIP 229 - Fire Dynamics and Combust **Credits: 3**
- FIP 240 - Fire Service Supervision **Credits: 3**
- FIP 256 - Munic Public Relations **Credits: 3**
- FIP 276 - Managing Fire Services **Credits: 3**

**Total Credits: 66-67**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- FIP 120 - Intro to Fire Protection **Credits: 3**
- FIP 124 - Fire Prevention & Public Ed **Credits: 3**

#### **Spring I**

- FIP 152 - Fire Protection Law **Credits: 3**
- FIP 240 - Fire Service Supervision **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**
- Natural Science/Math Elective **Credits: 3-4**

#### **Summer I**

- FIP 136 - Inspections & Codes **Credits: 3**
- FIP 256 - Munic Public Relations **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### **Fall II**

- FIP 128 - Detection & Investigation **Credits: 3**
- FIP 132 - Building Construction **Credits: 3**
- FIP 164 - OSHA Standards **Credits: 3**
- FIP 220 - Fire Fighting Strategies **Credits: 3**

#### **Spring II**

- Communications Elective **Credits: 3**
- FIP 162 - Firefighter Safety & Wellness **Credits: 3**
- FIP 221 - Adv Fire Fighting Strat **Credits: 3**
- FIP 228 - Local Govt Finance **Credits: 3**
- FIP 229 - Fire Dynamics and Combustion **Credits: 3**

#### **Summer II**

- EPT 140 - Emergency Management **Credits: 3**

- FIP 276 - Managing Fire Services **Credits: 3**

## A55300 - Interpreter Education

### Overview

| Department Title      | Program Code |
|-----------------------|--------------|
| Interpreter Education | A55300       |

### Program Description

The Interpreter Education curriculum prepares individuals to work as entry-level Sign Language Interpreters who will provide communication access in interview and interactive settings. In addition, this curriculum provides in-service training for working interpreters who want to upgrade their skills.

Course work includes the acquisition of American Sign Language (ASL); grammar, structure, and sociolinguistic properties; cognitive processes associated with interpretation between ASL and English; the structure and character of the deaf community; and acquisition of consecutive and simultaneous interpreting skills.

Entry-level jobs for para-professional interpreters are available in educational systems or a variety of community settings. Individuals may choose from part-time, full-time, or self-employment/free lance positions or apply language skills to other human service related areas.

### Degree

Associate in Applied Science

### Program of Study

#### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**

- COM 120 - Intro Interpersonal Comm **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Sciences/Math Electives** (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Social/Behavioral Science Electives** (Take 3 credits)

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**

- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Major Requirements (33 credits)**

- ASL 111 - Elementary ASL I **Credits: 3**
- ASL 112 - Elementary ASL II **Credits: 3**
- ASL 211 - Intermediate ASL I **Credits: 3**
- ASL 250 - Linguistics of ASL **Credits: 3**
- IPP 111 - Intro to Interpretation **Credits: 3**
- IPP 112 - Comparative Cultures **Credits: 3**
- IPP 152 - ASL/English Translation **Credits: 3**
- IPP 161 - Consecutive Interpreting **Credits: 5**
- IPP 221 - Simultaneous Interpret I **Credits: 5**
- WBL 111I - Work-Based Learning I **Credits: 1**
- WBL 115I - Work-Based Learning II **Credits: 1**

**Other Major Requirements (20 credits)**

- ASL 181 - ASL Lab 1 **Credits: 1**
- ASL 182 - ASL Lab 2 **Credits: 1**
- ASL 212 - Intermediate ASL II **Credits: 3**
- ASL 221 - Advanced ASL I **Credits: 3**
- ASL 281 - ASL Lab 3 **Credits: 1**
- CIS 110 - Introduction to Computers **Credits: 3**
- IPP 130 - Analytical Skills for Int **Credits: 3**
- IPP 224 - ASL to English Interpret **Credits: 2**
- IPP 240 - Ethical Stnds & Practices **Credits: 3**

**Total Credits: 68-69**

## Semester Sequence

### Semester Sequence

#### Fall I

- ASL 111 - Elementary ASL I **Credits: 3 and**
- ASL 181 - ASL Lab 1 **Credits: 1 \***
- ASL 112 - Elementary ASL II **Credits: 3 and**
- ASL 182 - ASL Lab 2 **Credits: 1 \*\***
- ENG 111 - Writing and Inquiry **Credits: 3**
- IPP 111 - Intro to Interpretation **Credits: 3**

#### Spring I

- ASL 211 - Intermediate ASL I **Credits: 3 and**
- ASL 281 - ASL Lab 3 **Credits: 1**
- Communications Elective **Credits: 3**
- IPP 130 - Analytical Skills for Int **Credits: 3**
- IPP 152 - ASL/English Translation **Credits: 3**
- Natural Science/Math Elective **Credits: 3-4**

#### Summer I

- ASL 212 - Intermediate ASL II **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- IPP 161 - Consecutive Interpreting **Credits: 5**

#### Fall II

- ASL 250 - Linguistics of ASL **Credits: 3**
- IPP 112 - Comparative Cultures **Credits: 3**
- IPP 224 - ASL to English Interpret **Credits: 2**
- Humanities/Fine Arts Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### Spring II

- ASL 221 - Advanced ASL I **Credits: 3**
- IPP 221 - Simultaneous Interpret I **Credits: 5**
- IPP 240 - Ethical Stnds & Practices **Credits: 3**
- WBL 111I - Work-Based Learning I **Credits: 1**

- WBL 115I - Work-Based Learning II **Credits: 1**

#### Note:

\* Mini-Session I

\*\*Mini-Session II

# A55370 - Community Spanish Interpreter

## Overview

### Department Title      Program Code

Community Spanish Interpreter      A55370

### Program Description

The Community Spanish Interpreter curriculum prepares individuals to work as entry-level bilingual professionals who will provide communication access in interview and interactive settings. In addition, this curriculum provides educational training for working professionals who want to acquire Spanish language skills.

Course work includes the acquisition of Spanish: grammar, structure, and sociolinguistic properties, cognitive processes associated with interpretation between Spanish and English; the structure and character of the Hispanic community; and acquisition of communication skills.

Graduates should qualify for entry-level jobs as para-professional bilingual employees in educational systems or a variety of community settings. Individuals may choose from part-time, full-time, or self-employment/free-lance positions, or apply language skills to other human service related areas.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15-16 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Communication Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Comm **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Natural Science/Math Electives (Take 3-4 credits)

- BIO 110 - Principles of Biology **Credits: 4**
- BIO 168 - Anatomy and Physiology I **Credits: 4**
- CHM 131 - Introduction to Chemistry **Credits: 3 and**
- CHM 131A - Intro to Chemistry Lab **Credits: 1**
- GEL 111 - Geology **Credits: 4**
- GEL 113 - Historical Geology **Credits: 4**

- GEL 230 - Environmental Geology **Credits: 4**
- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3 and**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

**Social/Behavioral Science Electives (Take 3 credits)**

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Major Requirements (48 credits)**

***\*Note: This program requires a lab component with SPA-111 through SPA-212***

- SPA 111 - Elementary Spanish I **Credits: 3 and**
- SPA 181 - Spanish Lab 1 **Credits: 1**
- SPA 112 - Elementary Spanish II **Credits: 3 and**
- SPA 182 - Spanish Lab 2 **Credits: 1**
- SPA 120 - Spanish for the Workplace **Credits: 3**
- SPA 141 - Culture and Civilization **Credits: 3**
- SPA 161 - Cultural Immersion **Credits: 3**
- SPA 211 - Intermediate Spanish I **Credits: 3 and**

- SPA 281 - Spanish Lab 3 **Credits: 1**
- SPA 212 - Intermediate Spanish II **Credits: 3 and**
- SPA 282 - Spanish Lab 4 **Credits: 1**
- SPA 215 - Spanish Phonetics/Structu **Credits: 3**
- SPA 221 - Spanish Conversation **Credits: 3**
- SPA 231 - Reading and Composition **Credits: 3**
- SPI 113 - Intro. to Spanish Inter. **Credits: 3**
- SPI 114 - Ana.Skills Spanish Inter. **Credits: 3**
- SPI 213 - Review of Grammar **Credits: 3**
- SPI 214 - Intro. to Translation **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

**Other Major Requirements (8 credits)**

**Take 1 of 4 Groups**

**Group I**

- CIS 111 - Basic PC Literacy **Credits: 2**
- SPI 241 - Legal Interpreting I **Credits: 3**
- SPI 245 - Community Interpreting I **Credits: 3**

**Group II**

- CIS 111 - Basic PC Literacy **Credits: 2**
- SPI 243 - Medical Interpreting I **Credits: 3**
- SPI 245 - Community Interpreting I **Credits: 3**

**Group III**

- CIS 110 - Introduction to Computers **Credits: 3**
- SPI 241 - Legal Interpreting I **Credits: 3**
- SPI 245 - Community Interpreting I **Credits: 3**

**Group IV**

- CIS 110 - Introduction to Computers **Credits: 3**

- SPI 243 - Medical Interpreting I **Credits: 3**
- SPI 245 - Community Interpreting I **Credits: 3**

### Other Major Requirements (3 credits)

- SPI 221 - Consecutive Interp I **Credits: 3**

### Total Credits: 74-75

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**
- SPA 111 - Elementary Spanish I **Credits: 3 and**
- SPA 181 - Spanish Lab 1 **Credits: 1**
- Natural Science/Math Elective **Credits: 3-4**

#### Spring I

- Communications Elective **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3 and**
- SPA 182 - Spanish Lab 2 **Credits: 1**
- SPA 141 - Culture and Civilization **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

#### Summer I

- SPA 211 - Intermediate Spanish I **Credits: 3 and**
- SPA 281 - Spanish Lab 3 **Credits: 1**
- SPA 215 - Spanish Phonetics/Structu **Credits: 3**
- SPA 221 - Spanish Conversation **Credits: 3**

#### Fall II

- SPA 161 - Cultural Immersion **Credits: 3**
- SPA 212 - Intermediate Spanish II **Credits: 3 and**

- SPA 282 - Spanish Lab 4 **Credits: 1**
- SPI 113 - Intro. to Spanish Inter. **Credits: 3**
- SPI 213 - Review of Grammar **Credits: 3**
- SPI 114 - Ana.Skills Spanish Inter. **Credits: 3**

#### Spring II

- SPA 231 - Reading and Composition **Credits: 3**
- SPI 214 - Intro. to Translation **Credits: 3**
- SPI 221 - Consecutive Interp I **Credits: 3**
- SPI 241 - Legal Interpreting I **Credits: 3 or**
- SPI 243 - Medical Interpreting I **Credits: 3**

#### Summer II

- SPA 120 - Spanish for the Workplace **Credits: 3**
- SPI 245 - Community Interpreting I **Credits: 3**
- WBL 111J - Work-Based Learning I- Spi **Credits: 1**
- WBL 115J - Work-Based Learning Seminar I **Credits: 1**
- Humanities/Fine Arts Elective **Credits: 3**

***\*Note: This program requires a lab component with SPA-111 through SPA-212***



# A55460 - Emergency Management

## Overview

### Department Title      Program Code

Emergency Management    A55460

### Program Description

The Emergency Management curriculum is designed to provide students with a foundation of technical and professional knowledge needed for emergency services delivery in local and state government agencies. Study involves both management and technical aspects of law enforcement, fire protection, emergency medical services, and emergency planning.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of emergency preparedness, protection, and enforcement. Students will learn technical and administrative skills such as investigative principles, hazardous materials, codes, standards, emergency agency operations, and finance.

Employment opportunities include ambulance services, fire/rescue agencies, law enforcement agencies, fire marshal offices, industrial firms, educational institutions, emergency management offices, and other government agencies. Employed persons should have opportunities for skilled and supervisory-level positions.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

### General Education Requirements (15-16 credits)

**Communications** (Take 6 credits)

#### Group I (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Group II (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Humanities/Fine Arts Elective (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 121 - Music Theory I **Credits: 3**
- MUS 122 - Music Theory II **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 230 - Introduction to Logic **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Mathematics Elective (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**

- MAT 171 - Precalculus Algebra **Credits: 4**

#### **Social/Behavioral Sciences Electives (Take 3 credits)**

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### **Major Requirements (27 credits)**

##### **Required (Take 21 credits)**

- EPT 120 - Sociology of Disaster **Credits: 3**
- EPT 130 - Mitigation & Preparedness **Credits: 3**
- EPT 140 - Emergency Management **Credits: 3**
- EPT 210 - Response & Recovery **Credits: 3**
- EPT 220 - Terrorism and Emer. Mgt. **Credits: 3**
- EPT 275 - Emergency Ops Center Mgt **Credits: 3**
- FIP 228 - Local Govt Finance **Credits: 3**

##### **Incident Management (Take 3 credits)**

- CJC 170 - Critical Incident Mgmt Pub Saf **Credits: 3**
- EPT 150 - Incident Management **Credits: 3**

##### **Law and Ethics (Take 3 credits)**

- EPT 124 - EM Services Law & Ethics **Credits: 3**
- FIP 152 - Fire Protection Law **Credits: 3**

#### **Other Required Hours (24 credits)**

- CIS 110 - Introduction to Computers **Credits: 3**

- EPT 230 - Emergency Planning **Credits: 3**
- EPT 260 - Business Continuity **Credits: 3**
- FIP 164 - OSHA Standards **Credits: 3**
- FIP 240 - Fire Service Supervision **Credits: 3**
- FIP 256 - Munic Public Relations **Credits: 3**
- PAD 151 - Intro to Public Admin **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

**Total Credits: 66-67**

### **Semester Sequence**

#### **Semester Sequence**

##### **Fall I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- EPT 120 - Sociology of Disaster **Credits: 3**
- EPT 130 - Mitigation & Preparedness **Credits: 3**
- EPT 140 - Emergency Management **Credits: 3**

##### **Spring I**

- Communications Elective **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- Incident Management Elective **Credits: 3**
- Law and Ethics Elective **Credits: 3**
- Humanities/Fine Arts Elective **Credits: 3**

##### **Summer I**

- EPT 260 - Business Continuity **Credits: 3**
- FIP 256 - Munic Public Relations **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

##### **Fall II**

- EPT 220 - Terrorism and Emer. Mgt. **Credits: 3**
- EPT 210 - Response & Recovery **Credits: 3**
- FIP 164 - OSHA Standards **Credits: 3**

- Mathematics Elective **Credits 3-4**

## Spring II

- PAD 151 - Intro to Public Admin **Credits: 3**
- EPT 230 - Emergency Planning **Credits: 3**
- EPT 275 - Emergency Ops Center Mgt **Credits: 3**
- FIP 228 - Local Govt Finance **Credits: 3**
- FIP 240 - Fire Service Supervision **Credits: 3**

# A55480 - Public Safety Administration

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Public Safety Administration | A55480       |

## Program Description

The Public Safety Administration curriculum is designed to provide students, as well as practitioners, with knowledge and skills in the technical, managerial, and administrative areas necessary for entrance or advancement within various public safety and government organizations.

Course work in diverse subject areas includes public safety administration and education, interagency operations, crisis leadership, government and agency financial management, professional standards, incident management, administrative law, and supervision, while providing a streamlined pathway that recognizes the value of previously earned skillsets and credentials within the public safety sector.

Employment opportunities exist with fire or police departments, emergency management organizations, governmental agencies, industrial firms, correctional facilities, private industries, insurance organizations, educational organizations, security and protective organizations, and through self-employment opportunities.

## Degree

Associate in Applied Science

## Program of Study

### Program Requirements

### General Education Requirements (18 credits)

Communications (Take 6 credits)

**Group I** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Group II** (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

**Humanities/Fine Arts** (Take 3 credits)

- HUM 115 - Critical Thinking **Credits: 3**

**Natural Sciences/Math** (Take 3 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**

**Social/Behavioral Sciences Elective** (Take 3 credits)

- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**

**Major Requirements (20 credits)**

**Required** (Take 12 credits)

- EPT 150 - Incident Management **Credits: 3**
- PAD 151 - Intro to Public Admin **Credits: 3**
- PAD 252 - Public Policy Analysis **Credits: 3**
- PAD 254 - Grant Writing **Credits: 3**

**Other Required** (Take 8-9 credits)

**Group I** (Take 3 Credits)

- EPT 124 - EM Services Law & Ethics **Credits: 3**
- FIP 152 - Fire Protection Law **Credits: 3**
- PAD 152 - Ethics in Government **Credits: 3**

**Group II** (Take 3 Credits)

- FIP 228 - Local Govt Finance **Credits: 3**
- PAD 251 - Public Finance & Budgeting **Credits: 3**

**Group III** (Take 2-3 Credits)

- CJC 240 - Law Enfor Mgt. & Supervis **Credits: 3**

- EMS 235 - EMS Management **Credits: 2**
- FIP 276 - Managing Fire Services **Credits: 3**

**Concentration Tracks** (Take 1 of 5 Concentration^ Requirements)

**^Correction Services** (Take 1 Group, 8-9 credits)

**Group I** (8 credits)

- PST 120 - NCDPS Correctional Officer Train **Credits: 8**
- PST 124 - NC Sheriffs' Detent Ofr Train **Credits: 8**

**Group II** (9 credits)

- CJC 141 - Corrections **Credits: 3**
- CJC 225 - Crisis Intervention **Credits: 3**
- CJC 232 - Civil Liability **Credits: 3**

**Group III** (9 credits)

- CJC 141 - Corrections **Credits: 3**
- CJC 225 - Crisis Intervention **Credits: 3**
- CJC 233 - Correctional Law **Credits: 3**

**^Emergency/Fire Management** (Take 12 credits)

- EMS 110 - EMT **Credits: 9**
- EMS 125 - EMS Instructor Methodology **Credits: 3**
- EPT 120 - Sociology of Disaster **Credits: 3**
- EPT 130 - Mitigation & Preparedness **Credits: 3**
- EPT 140 - Emergency Management **Credits: 3**
- EPT 150 - Incident Management **Credits: 3**
- EPT 210 - Response & Recovery **Credits: 3**
- FIP 120 - Intro to Fire Protection **Credits: 3**
- FIP 162 - Firefighter Safety & Wellness **Credits: 3**
- FIP 164 - OSHA Standards **Credits: 3**
- FIP 256 - Munic Public Relations **Credits: 3**

**^Law Enforcement Services (Take 12 or 20 credits)**

- CJC 110 - Basic Law Enforcement BLET **Credits: 20**
- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 122 - Community Policing **Credits: 3**
- CJC 131 - Criminal Law **Credits: 3**
- CJC 215 - Organization & Administration **Credits: 3**

**^Security & Loss Prevention Services (Take 12 credits)**

- CJC 151 - Intro to Loss Prevention **Credits: 3**
- CJC 152 - Intro to Sec/Protect Service **Credits: 3**
- CJC 153 - Private Security Operations **Credits: 3**
- CJC 154 - Private Security Business **Credits: 3**

**^911 Telecommunicator Services (Take 12 credits)**

- EMS 110 - EMT **Credits: 9**
- CJC 225 - Crisis Intervention **Credits: 3**
- HSE 225 - Crisis Intervention **Credits: 3**

**Other Major Requirements (Take 14 credits)**

- BUS 110 - Introduction to Business **Credits: 3**
- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CJC 151 - Intro to Loss Prevention **Credits: 3**
- CJC 152 - Intro to Sec/Protect Service **Credits: 3**
- CJC 153 - Private Security Operations **Credits: 3**
- CJC 154 - Private Security Business **Credits: 3**
- CJC 170 - Critical Incident Mgmt Pub Saf **Credits: 3**
- EMS 110 - EMT **Credits: 9**
- EMS 125 - EMS Instructor Methodology **Credits: 3**
- EMS 160 - Cardiology I **Credits: 3**

- EMS 235 - EMS Management **Credits: 2**
- EPT 220 - Terrorism and Emer. Mgt. **Credits: 3**
- EPT 275 - Emergency Ops Center Mgt **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- PST 120 - NCDPS Correct'l Officer Train **Credits: 8**
- PST 123 - NC Sheriffs' Telecom Training **Credits: 2**
- PST 124 - Nc Sheriffs' Detent Ofr Train **Credits: 8**
- PST 125 - NC Basic Juv Just Ofr Train **Credits: 7**
- PST 126 - NC Basic Juv Just Counsel Trg **Credits: 7**
- PST 127 - NC Basic Probation Ofr Traing **Credits: 9**
- PST 151 - NC Justice Academy Training **Credits: 1**
- PST 152 - NC Justice Academy Training **Credits: 2**
- PST 153 - NC Justice Academy Training **Credits: 3**
- PST 154 - NC Justice Academy Training **Credits: 4**
- PST 155 - NC Justice Academy Training **Credits: 5**
- PST 156 - NC Justice Academy Training **Credits: 6**
- PST 157 - NC Justice Academy Training **Credits: 7**
- PST 158 - NC Justice Academy Training **Credits: 8**
- PST 159 - NC Justice Academy Training **Credits: 9**
- PST 161 - NC OSFM Training **Credits: 1**
- PST 162 - NC OSFM Training **Credits: 2**

- PST 163 - NC OSFM Training **Credits: 3**
- PST 164 - NC OSFM Training **Credits: 4**
- PST 165 - NC OSFM Training **Credits: 5**
- PST 166 - NC OSFM Training **Credits: 6**
- PST 167 - NC OSFM Training **Credits: 7**
- PST 168 - NC OSFM Training **Credits: 8**
- PST 169 - NC OSFM Training **Credits: 9**
- PST 171 - NCCCS Public Safety Training **Credits: 1**
- PST 172 - NCCCS Public Safety Training **Credits: 2**
- PST 173 - NCCCS Public Safety Training **Credits: 3**
- PST 174 - NCCCS Public Safety Training **Credits: 4**
- PST 175 - NCCCS Public Safety Training **Credits: 5**
- PST 176 - NCCCS Public Safety Training **Credits: 6**
- PST 177 - NCCCS Public Safety Training **Credits: 7**
- PST 178 - NCCCS Public Safety Training **Credits: 8**
- PST 179 - NCCCS Public Safety Training **Credits: 9**
- PST 181 - NCDPS Unarmed Sec Guard Trg **Credits: 1**
- PST 182 - NCDPS Armed Sec Ofc Inst Trg **Credits: 2**
- PST 189 - NCDOJ Prof Cert Program **Credits: 9**
- PTE 112 - Pathway to Employ-Public Safe **Credits: 3**

#### Other Required Courses (Take 3 credits)

- CIS 110 - Introduction to Computers **Credits: 3**

#### Other Required Courses (Take 3 credits)

- SOC 210 - Introduction to Sociology **Credits: 3**
- SOC 220 - Social Problems **Credits: 3**
- SOC 230 - Race and Ethnic Relations **Credits: 3**

### Total Credits: 60-76

Students must take a minimum of 64 credits to graduate from this program in any concentration track. They will be required to take between 9-21 credits from Other Major Requirements-Other Major Hours.

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- EPT 150 - Incident Management **Credits: 3**
- PAD 151 - Intro to Public Admin **Credits: 3**
- PSY 150 - General Psychology **Credits: 3 or**
- POL 120 - American Government **Credits: 3**

#### Spring I

- ENG 114 - Prof Research & Reporting **Credits: 3**
- Communications Elective **Credits: 3**
- PAD 152 - Ethics in Government **Credits: 3 or**
- FIP 152 - Fire Protection Law **Credits: 3 or**
- EPT 124 - EM Services Law & Ethics **Credits: 3**
- Other Major Required **Credits: 3**

#### Summer I

- MAT 143 - Quantitative Literacy **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Fall II

- PAD 251 - Public Finance & Budgeting **Credits: 3 or**

- FIP 228 - Local Govt Finance **Credits: 3**
- PAD 254 - Grant Writing **Credits: 3**
- Concentration Track **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- Other Major Requirements **Credits: 3**

## Spring II

- PAD 252 - Public Policy Analysis **Credits: 3**
- CJC 240 - Law Enfor Mgt. & Supervis **Credits: 3 or**
- FIP 276 - Managing Fire Services **Credits: 3 or**
- EMS 235 - EMS Management **Credits: 2**
- SOC 210 - Introduction to Sociology **Credits: 3 or**
- SOC 220 - Social Problems **Credits: 3 or**
- SOC 230 - Race and Ethnic Relations **Credits: 3**
- Other Major Required **Credits: 3**
- Concentration Track **Credits: 3**

# A60160 - Automotive Systems Technology

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Automotive Systems Technology | A60160       |

## Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Systems Technology: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems

## Degree

Associate in Applied Science



## Program of Study

### Program Requirements

#### General Education Requirements (15 credits)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**

Natural Science and Math (Take 3 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**

Social/Behavioral Science Electives (Take 3 credits)

- HIS 132 - American History II **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (27 credits)

Fundamental Transport Skills (Take 2 credits)

- TRN 110 - Intro to Transport Tech **Credits: 2**

Intermediate Transport Skills (Take 8 credits)

- TRN 120 - Basic Transp Electricity **Credits: 5**
- TRN 130 - Intro to Sustainable Transp **Credits: 3**

Specialized Transport Skills (Take 5 credits)

- TRN 140 - Transp Climate Control **Credits: 2**
- TRN 145 - Adv Transp Electronics **Credits: 3**

Automotive Systems Technology (Take 12 credits)

- AUT 116 - Engine Repair **Credits: 3**

- AUT 141 - Suspension & Steering Sys **Credits: 3**
- AUT 151 - Brake Systems **Credits: 3**
- AUT 181 - Engine Performance 1 **Credits: 3**

#### Other Major Requirements (29 credits)

Required Courses (Take 29 credits)

- AUT 116A - Engine Repair Lab **Credits: 1**
- AUT 123 - Powertrain Diagn & Serv **Credits: 2**
- AUT 141A - Suspension & Steering Lab **Credits: 1**
- AUT 151A - Brakes Systems Lab **Credits: 1**
- AUT 163 - Adv Auto Electricity **Credits: 3**
- AUT 163A - Adv Auto Electricity Lab **Credits: 1**
- AUT 181A - Engine Performance 1 Lab **Credits: 1**
- AUT 212 - Auto Shop Management **Credits: 3**
- AUT 213 - Automotive Servicing 2 **Credits: 2**
- AUT 221 - Auto Transm/Transaxles **Credits: 3**
- AUT 221A - Auto Transm/Transax Lab **Credits: 1**
- AUT 231 - Man Trans/Axles/Drtrains **Credits: 3**
- AUT 281 - Adv Engine Performance **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**
- TRN 140A - Transp Climate Cont Lab **Credits: 2**

**Total Credits: 71**

## Semester Sequence

### Semester Sequence

#### Fall I

- AUT 151 - Brake Systems **Credits: 3 and**
- AUT 151A - Brakes Systems Lab **Credits: 1**
- TRN 110 - Intro to Transport Tech **Credits: 2**

- TRN 120 - Basic Transp Electricity **Credits: 5**
- ENG 111 - Writing and Inquiry **Credits: 3**

## Spring I

- AUT 123 - Powertrain Diagn & Serv **Credits: 2**
- AUT 141 - Suspension & Steering Sys **Credits: 3 and**
- AUT 141A - Suspension & Steering Lab **Credits: 1**
- AUT 163 - Adv Auto Electricity **Credits: 3 and**
- AUT 163A - Adv Auto Electricity Lab **Credits: 1**
- CIS 111 - Basic PC Literacy **Credits: 2**

## Summer I

- AUT 181 - Engine Performance 1 **Credits: 3 and**
- AUT 181A - Engine Performance 1 Lab **Credits: 1**
- AUT 212 - Auto Shop Management **Credits: 3**
- TRN 140 - Transp Climate Control **Credits: 2 and**
- TRN 140A - Transp Climate Cont Lab **Credits: 2**
- Humanities/Fine Art Elective **Credits: 3**

## Fall II

- AUT 116 - Engine Repair **Credits: 3 and**
- AUT 116A - Engine Repair Lab **Credits: 1**
- AUT 281 - Adv Engine Performance **Credits: 3**
- TRN 145 - Adv Transp Electronics **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

## Spring II

- AUT 213 - Automotive Servicing 2 **Credits: 2**

- AUT 221 - Auto Transm/Transaxles **Credits: 3 and**
- AUT 221A - Auto Transm/Transax Lab **Credits: 1**
- AUT 231 - Man Trans/Axles/Drtrains **Credits: 3**
- TRN 130 - Intro to Sustainable Transp **Credits: 3**
- Social/Behavioral Sciences Elective **Credits: 3**

# A60460 - Diesel and Heavy Equipment Technology

## Overview

### Department Title      Program Code

Diesel & Heavy Equipment A60460

Tech

### Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Diesel and Heavy Equipment Technology: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as Heavy Duty Trucks over one ton classification, buses, ships, railroad locomotives, and equipment; as well as stationary diesel engines in electrical generators and related equipment.

### Degree

Associate in Applied Science

## Program of Study

### Program Requirements

#### General Education Requirements (15 credits)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

Mathematics (Take 3 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**

Humanities/Fine Arts Elective (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**

Social/Behavioral Science Elective (Take 3 credits)

- HIS 132 - American History II **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (38 credits)

Fundamental Trans Skills (Take 5 credits)

- TRN 110 - Intro to Transport Tech **Credits: 2**
- HET 134 - Diesel Fuel & Power Sys **Credits: 3**

Intermediate Trans Skills (Take 5 credits)

- TRN 120 - Basic Transp Electricity **Credits: 5**

Specialized Trans Skills (Take 2 credits)

- TRN 140 - Transp Climate Control **Credits: 2**

Diesel and Heavy Equipment (Take 26 credits)

- HET 110 - Diesel Engines **Credits: 6**
- HET 114 - Power Trains **Credits: 5**
- HET 125 - Preventive Maintenance **Credits: 2**
- MRN 121 - Marine Engines **Credits: 4**

- MRN 147 - Marine Power Trains **Credits: 4**
- MRN 150 - Adv Marine Electrical Sys **Credits: 5**

### Other Major Requirements (17 credits)

- CIS 111 - Basic PC Literacy **Credits: 2**
- HET 115 - Electronic Engines **Credits: 3**
- HET 128 - Medium/Heavy Duty Tune Up **Credits: 2**
- HET 229 - Brakes and Steering **Credits: 2**
- HET 230 - Air Brakes **Credits: 2**
- HYD 112 - Hydraulics-Med/Heavy Duty **Credits: 2**
- TRN 140A - Transp Climate Cont Lab **Credits: 2**
- WLD 112 - Basic Welding Processes **Credits: 2**

**Total Credits: 70**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- HET 125 - Preventive Maintenance **Credits: 2**
- HET 134 - Diesel Fuel & Power Sys **Credits: 3**
- TRN 110 - Intro to Transport Tech **Credits: 2**
- TRN 120 - Basic Transp Electricity **Credits: 5**

#### Spring I

- CIS 111 - Basic PC Literacy **Credits: 2**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- HET 110 - Diesel Engines **Credits: 6**
- MRN 121 - Marine Engines **Credits: 4**

#### Summer I

- HET 115 - Electronic Engines **Credits: 3**
- MRN 147 - Marine Power Trains **Credits: 4**

#### Fall II

- WLD 112 - Basic Welding Processes **Credits: 2**
- MAT 110 - Math Measurement & Literacy **Credits: 3**
- HET 114 - Power Trains **Credits: 5**
- HET 128 - Medium/Heavy Duty Tune Up **Credits: 2**
- HYD 112 - Hydraulics-Med/Heavy Duty **Credits: 2**
- MRN 150 - Adv Marine Electrical Sys **Credits: 5**
- Humanities/Fine Arts Elective **Credits: 3**

#### Spring II

- HET 229 - Brakes and Steering **Credits: 2**
- HET 230 - Air Brakes **Credits: 2**
- TRN 140 - Transp Climate Control **Credits: 2 and**
- TRN 140A - Transp Climate Cont Lab **Credits: 2**
- Social/Behavioral Science Elective **Credits: 3**

# C15260 - Landscape Gardening & Horticulture Science Certificate

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Landscape Gardening | C15260       |

### Program Description

Pathway Description: These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

Landscape Gardening: A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Potential course work includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

Degree  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HOR 160 - Plant Materials I **Credits: 3**
- HOR 162 - Applied Plant Science **Credits: 3**
- HOR 164 - Hort Pest Management **Credits: 3**
- LSG 121 - Fall Gardening Lab **Credits: 2**
- TRF 110 - Intro Turfgrass Cult & ID **Credits: 4**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- HOR 160 - Plant Materials I **Credits: 3**
- LSG 121 - Fall Gardening Lab **Credits: 2**
- HOR 162 - Applied Plant Science **Credits: 3**

#### Spring I

- HOR 164 - Hort Pest Management **Credits: 3**

#### Summer I

- TRF 110 - Intro Turfgrass Cult & ID **Credits: 4**

# C15260CP - Landscape Gardening & Horticulture Science Pathway

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Landscape Gardening | C15260CP     |

### Program Description

Pathway Description: These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

Landscape Gardening: A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Potential course work includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

Degree  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- LSG 121 - Fall Gardening Lab **Credits: 2**
- HOR 160 - Plant Materials I **Credits: 3**
- HOR 162 - Applied Plant Science **Credits: 3**
- HOR 164 - Hort Pest Management **Credits: 3**
- TRF 110 - Intro Turfgrass Cult & ID **Credits: 4**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- HOR 160 - Plant Materials I **Credits: 3**
- HOR 162 - Applied Plant Science **Credits: 3**
- LSG 121 - Fall Gardening Lab **Credits: 2**

#### Spring I

- HOR 164 - Hort Pest Management **Credits: 3**

#### Summer

- TRF 110 - Intro Turfgrass Cult & ID **Credits: 4**

# C15260HP - Landscape Gardening & Horticulture Production Certificate

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Landscape Gardening | C15260HP     |

### Program Description

Pathway Description: These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

Landscape Gardening: A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Potential course work includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

Degree  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HOR 124 - Nursery Operations **Credits: 3**
- HOR 134 - Greenhouse Operations **Credits: 3**
- HOR 162 - Applied Plant Science **Credits: 3**
- HOR 164 - Hort Pest Management **Credits: 3**
- HOR 168 - Plant Propagation **Credits: 3**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- HOR 124 - Nursery Operations **Credits: 3**
- HOR 162 - Applied Plant Science **Credits: 3**
- HOR 168 - Plant Propagation **Credits: 3**

#### Spring I

- HOR 134 - Greenhouse Operations **Credits: 3**
- HOR 164 - Hort Pest Management **Credits: 3**



# C15260LD - Landscape Gardening - Design Certificate

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Landscape Gardening | C15260LD     |

## Program Description

Pathway Description: These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

Landscape Gardening: A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Potential course work includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HOR 112 - Landscape Design I **Credits: 3**
- HOR 114 - Landscape Construction **Credits: 3**
- HOR 160 - Plant Materials I **Credits: 3**
- HOR 161 - Plant Materials II **Credits: 3**
- HOR 162 - Applied Plant Science **Credits: 3**
- HOR 213 - Landscape Design II **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- HOR 112 - Landscape Design I **Credits: 3**
- HOR 114 - Landscape Construction **Credits: 3**
- HOR 160 - Plant Materials I **Credits: 3**
- HOR 162 - Applied Plant Science **Credits: 3**

#### Spring I

- HOR 161 - Plant Materials II **Credits: 3**
- HOR 213 - Landscape Design II **Credits: 3**

# C15260R - Landscape Gardening - Retention Pond Management Certificate

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Landscape Gardening | C15260R      |

## Program Description

Pathway Description: These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

Landscape Gardening: A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Potential course work includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

Degree  
Certificate

## Program of Study

## Program Requirements

## Major Requirements

### Plant Identification

- HOR 160 - Plant Materials I **Credits: 3**

### Pest Management

- HOR 164 - Hort Pest Management **Credits: 3**

### Horticulture Technology

- HOR 162 - Applied Plant Science **Credits: 3**

### Landscape Gardening

- LSG 121 - Fall Gardening Lab **Credits: 2**
- LSG 122 - Spring Gardening Lab **Credits: 2**

**Total Credits: 13**

## Semester Sequence

## Semester Sequence

### Fall I

- HOR 160 - Plant Materials I **Credits: 3**
- LSG 121 - Fall Gardening Lab **Credits: 2**
- HOR 162 - Applied Plant Science **Credits: 3**

### Spring I

- HOR 164 - Hort Pest Management **Credits: 3**
- LSG 122 - Spring Gardening Lab **Credits: 2**

# C15260S - Landscape Gardening - Sustainable Gardening Certificate

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Landscape Gardening | C15260S      |

## Program Description

Pathway Description: These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

Landscape Gardening: A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Potential course work includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

Degree  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

##### Pest Management

- HOR 164 - Hort Pest Management **Credits: 3**

##### Horticulture Technology

- HOR 162 - Applied Plant Science **Credits: 3**

##### Landscape Gardening

- HOR 134 - Greenhouse Operations **Credits: 3**
- LSG 121 - Fall Gardening Lab **Credits: 2**

#### Other Major Requirements

- AGR 139 - Intro to Sustainable Ag **Credits: 3**

### Total Credits: 14

## Semester Sequence

### Semester Sequence

#### Fall I

- HOR 134 - Greenhouse Operations **Credits: 3**
- LSG 121 - Fall Gardening Lab **Credits: 2**
- HOR 162 - Applied Plant Science **Credits: 3**

#### Spring I

- AGR 139 - Intro to Sustainable Ag **Credits: 3**
- HOR 164 - Hort Pest Management **Credits: 3**

# C15260SP - Landscape Gardening - Sustainable Gardening Pathway

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Landscape Gardening | C15260SP     |

## Program Description

Pathway Description: These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

Landscape Gardening: A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Potential course work includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

Degree  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

##### Pest Management

- HOR 164 - Hort Pest Management **Credits: 3**

##### Horticulture Technology

- HOR 162 - Applied Plant Science **Credits: 3**

##### Landscape Gardening

- HOR 134 - Greenhouse Operations **Credits: 3**
- LSG 121 - Fall Gardening Lab **Credits: 2**

#### Other Major Requirements

- AGR 139 - Intro to Sustainable Ag **Credits: 3**

### Total Credits: 14

## Semester Sequence

### Semester Sequence

#### Fall I

- HOR 134 - Greenhouse Operations **Credits: 3**
- LSG 121 - Fall Gardening Lab **Credits: 2**
- HOR 162 - Applied Plant Science **Credits: 3**

#### Spring I

- AGR 139 - Intro to Sustainable Ag **Credits: 3**
- HOR 164 - Hort Pest Management **Credits: 3**

# C15320CP - Marine Technology Pathway

## Overview

| Department Title  | Program Code |
|-------------------|--------------|
| Marine Technology | C15320CP     |

## Program Description

Pathway Description: These curricula prepare individuals for a variety of marine-related occupations such as marine conservation, water analysis, marine scientific research support and commercial fishing. Individuals will be prepared as naturalists within the ecotourism industry and be trained in observational and measurement techniques aboard a variety of vessels including ocean-going research vessels.

Course work includes a unique blend of traditional and contemporary vocational, technical, and scientific marine education. Course work specific for Marine Sciences includes instruction in biological sciences, environmental sciences, and marine sciences. Field and laboratory experiences prepare students to identify, observe, and collect scientific data associated with the fauna and flora found in the rivers, estuaries, sounds, and ocean. Course work in Marine Technologies includes instruction in the use of physical, chemical, meteorological, biological, and geological oceanographic instrumentation and sampling equipment.

Graduates are prepared for employment opportunities with aquariums, fisheries, corps of engineers, marine patrol, ecotourism companies, commercial fishing industries, entry-level field or laboratory positions with industries, state and federal agencies, and educational facilities associated with marine science and research. Career opportunities include oceanography, environmental science, marine biology, geophysical exploration, and fisheries-related employment.

Marine Technology: A program that provides the practical and academic skills essential for success in marine scientific support. Training in the operation and

maintenance of seismic and hydrographic instrumentation including: side scan sonar, multibeam echo sounders, and sub-bottom profilers is provided in the classroom and underway at sea. Additional course work includes: classic and digital navigation techniques, practical applications of boat handling, seamanship, marlinspike seamanship, and safety at sea. Instruction applicable to fisheries science and environmental assessment is provided.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- MSC 132 - Fishing Gear Tech I **Credits: 3**
- MSC 150 - Marine Navigation **Credits: 3**
- MSC 160 - Oceanography **Credits: 3**
- MSC 172 - Marine Biology **Credits: 3**
- MSC 276 - Marine Vertebrate Zoo **Credits: 4**

#### Total Credits: 16

## Semester Sequence

### Semester Sequence

#### Fall I

- MSC 132 - Fishing Gear Tech I **Credits: 3**
- MSC 160 - Oceanography **Credits: 3**
- MSC 172 - Marine Biology **Credits: 3**

#### Spring I

- MSC 150 - Marine Navigation **Credits: 3**
- MSC 276 - Marine Vertebrate Zoo **Credits: 4**

# C20120 - Chemical Technology Certificate

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Chemical Technology | C20120       |

### Program Description

The Chemical Technology curriculum prepares individuals for work as analytical technicians in chemical laboratories associated with chemical production, environmental concerns, pharmaceuticals, or general analysis.

Course work includes general chemistry, organic chemistry, introductory chemical engineering, qualitative analysis, and quantitative analysis, including such instrumental techniques as spectroscopy (UV-Vis, IR, AA) and chromatography (GC, LC). Students also utilize computerized data collection, reduction, and graphic presentation.

Graduates should qualify as entry-level chemical laboratory technicians. Their duties may include chemical solution preparation; raw material, product, or environmental sampling; and/or sample testing via wet chemistry or instrumental techniques.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CHM 151 - General Chemistry I **Credits: 4**
- CTC 110 - Chemical Safety & Technology **Credits: 2**
- CTC 114 - Wet Laboratory Techniques **Credits: 5**
- CTC 115 - Quality Control Laboratory **Credits: 5**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- CTC 110 - Chemical Safety & Technology **Credits: 2**
- CTC 114 - Wet Laboratory Techniques **Credits: 5**

#### Spring I

- CHM 151 - General Chemistry I **Credits: 4**
- CTC 115 - Quality Control Laboratory **Credits: 5**

# C20120CP - Chemical Technology Pathway

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Chemical Technology | C20120CP     |

## Program Description

The Chemical Technology curriculum prepares individuals for work as analytical technicians in chemical laboratories associated with chemical production, environmental concerns, pharmaceuticals, or general analysis.

Course work includes general chemistry, organic chemistry, introductory chemical engineering, qualitative analysis, and quantitative analysis, including such instrumental techniques as spectroscopy (UV-Vis, IR, AA) and chromatography (GC, LC). Students also utilize computerized data collection, reduction, and graphic presentation.

Graduates should qualify as entry-level chemical laboratory technicians. Their duties may include chemical solution preparation; raw material, product, or environmental sampling; and/or sample testing via wet chemistry or instrumental techniques.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CHM 151 - General Chemistry I **Credits: 4**
- CTC 110 - Chemical Safety & Technology **Credits: 2**
- CTC 114 - Wet Laboratory Techniques **Credits: 5**
- CTC 115 - Quality Control Laboratory **Credits: 5**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- CTC 110 - Chemical Safety & Technology **Credits: 2**
- CTC 114 - Wet Laboratory Techniques **Credits: 5**

#### Spring I

- CHM 151 - General Chemistry I **Credits: 4**
- CTC 115 - Quality Control Laboratory **Credits: 5**



# C25110 - Hospitality Management Certificate

## Overview

### Department Title      Program Code

Hospitality Management      C25110

### Program Description

This curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CUL 110 - Sanitation & Safety **Credits: 2**
- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 160 - Info Systems for Hosp **Credits: 3**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 220A - Cost Control-Food & Bev Lab **Credits: 1**

- WBL 110 - World of Work **Credits: 1**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation & Safety **Credits: 2**
- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 160 - Info Systems for Hosp **Credits: 3**

#### Spring I

- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 220A - Cost Control-Food & Bev Lab **Credits: 1**
- WBL 110 - World of Work **Credits: 1**

# C25110A - Hospitality Management - Lodging Certificate

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Hospitality Management | C25110A      |

### Program Description

This curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 120 - Front Office Procedures **Credits: 3**
- HRM 130 - Bed and Breakfast Mgt. **Credits: 3**
- HRM 135 - Facilities Management **Credits: 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 230 - Club & Resort Management **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 120 - Front Office Procedures **Credits: 3**
- HRM 130 - Bed and Breakfast Mgt. **Credits: 3**

#### Spring I

- HRM 135 - Facilities Management **Credits: 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 230 - Club & Resort Management **Credits: 3**

# C25110B - Hospitality Management - Front of House Certificate

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Hospitality Management | C25110B      |

## Program Description

This curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CUL 110 - Sanitation & Safety **Credits: 2**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**

## Other Major Hours

- HRM 124 - Guest Service Management **Credits: 3**
- HRM 215 - Restaurant Management **Credits: 3**
- WBL 110 - World of Work **Credits: 1**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation and Safety **Credits: 2**
- HRM 220 - Cost Control-Food and Beverage **Credits: 3**

#### Spring I

- HRM 124 - Guest Service Management **Credits: 3**
- HRM 245 - Human Resource Management **Credits: 3**

#### Summer I

- HRM 215 - Restaurant Management **Credits: 3**
- WBL 110 - World of Work **Credits: 1**

# C25110CP - Hospitality Management Pathway

## Overview

### Department Title      Program Code

Hospitality Management      C25110CP

### Program Description

This curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CUL 110 - Sanitation & Safety **Credits: 2**
- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 160 - Info Systems for Hosp **Credits: 3**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 220A - Cost Control-Food & Bev Lab **Credits: 1**

- WBL 110 - World of Work **Credits: 1**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation & Safety **Credits: 2**
- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 160 - Info Systems for Hosp **Credits: 3**

#### Spring I

- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 220A - Cost Control-Food & Bev Lab **Credits: 1**
- WBL 110 - World of Work **Credits: 1**

# C25120 - Business Administration - Customer Service Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120       |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BUS 110 - Introduction to Business **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 221 - Consumer Behavior **Credits: 3**
- MKT 223 - Customer Service **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 4**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- BUS 110 - Introduction to Business **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Service **Credits: 3**

#### Spring I

- MKT 221 - Consumer Behavior **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 4**

# C25120A - Business Administration - Management and Supervision Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120A      |

## Program 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.

## Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BUS 110 - Introduction to Business **Credits: 3**
- BUS 135 - Principles of Supervision **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- INT 110 - International Business **Credits: 3**

- OMT 156 - Problem-Solving Skills **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- BUS 110 - Introduction to Business **Credits: 3**
- INT 110 - International Business **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**

#### Spring I

- BUS 135 - Principles of Supervision **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**

# C25120AP - Business Administration - Management and Supervision Pathway

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120AP     |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BUS 110 - Introduction to Business **Credits: 3**
- BUS 135 - Principles of Supervision **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- INT 110 - International Business **Credits: 3**

- OMT 156 - Problem-Solving Skills **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- BUS 110 - Introduction to Business **Credits: 3**
- INT 110 - International Business **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**

#### Spring I

- BUS 135 - Principles of Supervision **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**



# C25120B - Business Administration - Banking and Finance Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120B      |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BAF 110 - Principles of Banking **Credits: 3**
- BAF 111 - Teller Training **Credits: 3**
- BAF 232 - Consumer Lending **Credits: 3 or**
- BAF 234 - Residential Mort Lending **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**

- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**

**Total Credits: 14-15**

## Semester Sequence

### Semester Sequence

#### Fall I

- BAF 110 - Principles of Banking **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**

#### Spring I

- BAF 111 - Teller Training **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**
- BAF 232 - Consumer Lending **Credits: 3 or**
- BAF 234 - Residential Mort Lending **Credits: 3**

# C25120BP - Business Administration - Banking and Finance Pathway

## Overview

|                         |                     |
|-------------------------|---------------------|
| <b>Department Title</b> | <b>Program Code</b> |
| Business Administration | C25120BP            |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**
- BAF 110 - Principles of Banking **Credits: 3**
- BAF 111 - Teller Training **Credits: 3**

- BAF 232 - Consumer Lending **Credits: 3 or**
- BAF 234 - Residential Mort Lending **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**

**Total Credits: 14-15**

## Semester Sequence

### Semester Sequence

#### Fall I

- BAF 110 - Principles of Banking **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**

#### Spring I

- BAF 111 - Teller Training **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**
- BAF 232 - Consumer Lending **Credits: 3 or**
- BAF 234 - Residential Mort Lending **Credits: 3**

# C25120CP - Business Administration Pathway

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120CP     |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- BUS 110 - Introduction to Business **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- BUS 110 - Introduction to Business **Credits: 3**

#### Spring I

- CIS 110 - Introduction to Computers **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**

# C25120D - Business Administration - Office Systems Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120D      |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**
- CTS 130 - Spreadsheet **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**

- OMT 156 - Problem-Solving Skills **Credits: 3**
- OST 136 - Word Processing **Credits: 3**

**Total Credits: 14-15**

## Semester Sequence

### Semester Sequence

#### Fall Semester I

- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**
- OMT 156 - Problem-Solving Skills **Credits: 3**

#### Spring Semester I

- CTS 130 - Spreadsheet **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**
- OST 136 - Word Processing **Credits: 3**

# C25120DP - Business Administration - Office Systems Pathway

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120DP     |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**
- CTS 130 - Spreadsheet **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**

- OMT 156 - Problem-Solving Skills **Credits: 3**
- OST 136 - Word Processing **Credits: 3**

**Total Credits: 14-15**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers **Credits: 3 or**
- CIS 111 - Basic PC Literacy **Credits: 2**
- OMT 156 - Problem-Solving Skills **Credits: 3**

#### Spring I

- CTS 130 - Spreadsheet **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**
- OST 136 - Word Processing **Credits: 3**

# C25120E - Business Administration - Entrepreneurship Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120E      |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- ACC 150 - Accounting Software Appl **Credits: 2**
- BUS 139 - Entrepreneurship I **Credits: 3**

- BUS 230 - Small Business Management  
**Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Service **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- BUS 139 - Entrepreneurship I **Credits: 3**

#### Spring I

- ACC 150 - Accounting Software Appl **Credits: 2**
- BUS 230 - Small Business Management  
**Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Service **Credits: 3**

# C25120EP - Business Administration - Entrepreneurship Pathway

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120EP     |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- ACC 150 - Accounting Software Appl **Credits: 2**
- BUS 139 - Entrepreneurship I **Credits: 3**

- BUS 230 - Small Business Management  
**Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Service **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- BUS 139 - Entrepreneurship I **Credits: 3**

#### Spring I

- ACC 150 - Accounting Software Appl **Credits: 2**
- BUS 230 - Small Business Management  
**Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Service **Credits: 3**



# C25120G - Business Administration - International Business Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120G      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BUS 110 - Introduction to Business **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- ECO 151 - Survey of Economics **Credits: 3**
- INT 110 - International Business **Credits: 3**

- MKT 224 - International Marketing **Credits: 3**

### Other Major Requirements

(Take 3 credits)

- ASL 111 - Elementary ASL I **Credits: 3**
- FRE 111 - Elementary French I **Credits: 3**
- SPA 111 - Elementary Spanish I **Credits: 3**
- GER 111 - Elementary German I **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- BUS 110 - Introduction to Business **Credits: 3**
- INT 110 - International Business **Credits: 3**
- Foreign Language Elective **Credits: 3**

#### Spring I

- BUS 137 - Principles of Management **Credits: 3**
- ECO 151 - Survey of Economics **Credits: 3**
- MKT 224 - International Marketing **Credits: 3**

# C25120K - Business Administration - Insurance Property & Casualty Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120K      |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BUS 125 - Personal Finance **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- BUS 147 - Business Insurance **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

- INS 129 - Property & Casualty Insurance **Credits: 3**
- MKT 223 - Customer Experience **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- BUS 137 - Principles of Management **Credits: 3**
- BUS 147 - Business Insurance **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**

#### Spring I

- MKT 223 - Customer Experience **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**
- INS 129 - Property & Casualty Insurance **Credits: 3**

# C25120L - Business Administration - Insurance Life & Accident Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120L      |

### Program 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.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BUS 270 - Professional Development Credits: 3
- BUS 115 - Business Law I Credits: 3
- ECO 151 - Survey of Economics Credits: 3
- INS 121 - Life Insurance Credits: 3

- INS 122 - Accident and Health Insurance Credits: 3

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- INS 121 - Life Insurance Credits: 3
- INS 122 - Accident and Health Insurance Credits: 3

#### Spring I

- BUS 115 - Business Law I Credits: 3
- BUS 270 - Professional Development Credits: 3
- ECO 151 - Survey of Economics Credits: 3

# C25120M - Business Administration - Business Basics Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120M      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- BUS 110 - Introduction to Business **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**

- CIS 110 - Introduction to Computers **Credits: 3**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- BUS 110 - Introduction to Business **Credits: 3**

#### Spring I

- CIS 110 - Introduction to Computers **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**

# C25120UP - Business Administration - Customer Service Pathway

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | C25120UP     |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BUS 110 - Introduction to Business **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 221 - Consumer Behavior **Credits: 3**
- MKT 223 - Customer Service **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 4**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- BUS 110 - Introduction to Business **Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Service **Credits: 3**

#### Spring I

- MKT 221 - Consumer Behavior **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 4**

# C25310 - Medical Office Administration Certificate

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Medical Office Administration | C25310       |

## Program 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.

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 should 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.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BIO 163 - Basic Anat & Physiology **Credits: 5**
- CIS 110\_ Introduction to Computers **Credits: 3**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**

- OST 149 - Medical Legal Issues **Credits: 3**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110\_ Introduction to Computers **Credits: 3**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**

#### Spring I

- BIO 163 - Basic Anat & Physiology **Credits: 5**
- OST 149 - Medical Legal Issues **Credits: 3**

# C25310CP - Medical Office Administration Pathway

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Medical Office Administration | C25310CP     |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BIO 163 - Basic Anat & Physiology **Credits: 5**
- CIS 110 - Introduction to Computers **Credits: 3**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**
- OST 149 - Medical Legal Issues **Credits: 3**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Spring I

- OST 149 - Medical Legal Issues **Credits: 3**
- BIO 163 - Basic Anat & Physiology **Credits: 5**



# C25350 - Business Analytics Certificate

## Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Business Analytics | C25350       |

### Program Description

The Business Analytics curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in analytical professions. Business analysts process and analyze essential information about business operations and also assimilate data for forecasting purposes.

Students will complete course work in business analytics, including general theory, best practices, data mining, data warehousing, predictive modeling, project and operations management, statistical analysis, and software packages. Related skills include business communication, critical thinking and decision making.

Graduates should qualify for employment as data technicians, data scientists, business and data analytics engineers, and business analysts in the fields of finance, banking, logistics, marketing, healthcare, manufacturing, information technology, and government organizations.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 121 - Data Visualization **Credits: 3**
- BAS 150 - Intro to Analytical Program. **Credits: 3**
- BAS 220 - Appl. Analytical Program. **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**

- CIS 110 - Introduction to Computers **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 150 - Intro to Analytical Program. **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Spring I

- BAS 121 - Data Visualization **Credits: 3**
- BAS 220 - Appl. Analytical Program. **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**

# C25350CP - Business Analytics Pathway

## Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Business Analytics | C25350CP     |

### Program Description

The Business Analytics curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in analytical professions. Business analysts process and analyze essential information about business operations and also assimilate data for forecasting purposes.

Students will complete course work in business analytics, including general theory, best practices, data mining, data warehousing, predictive modeling, project and operations management, statistical analysis, and software packages. Related skills include business communication, critical thinking and decision making.

Graduates should qualify for employment as data technicians, data scientists, business and data analytics engineers, and business analysts in the fields of finance, banking, logistics, marketing, healthcare, manufacturing, information technology, and government organizations.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 121 - Data Visualization **Credits: 3**
- BAS 150 - Intro to Analytical Program. **Credits: 3**
- BAS 220 - Appl. Analytical Program. **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**

- CIS 110 - Introduction to Computers **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 150 - Intro to Analytical Program. **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Spring I

- BAS 121 - Data Visualization **Credits: 3**
- BAS 220 - Appl. Analytical Program. **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**

# C25380C - Paralegal Technology - Civil Litigation Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Paralegal Technology | C25380C      |

### Program Description

The Paralegal Technology curriculum prepares individuals to work under the supervision of attorneys by performing routine legal tasks and assisting with substantive legal work. A paralegal/legal assistant may not practice law, give legal advice, or represent clients in a court of law.

Course work includes substantive and procedural legal knowledge in the areas of civil litigation, legal research and writing, real estate, family law, wills, estates, trusts, and commercial law. Required courses also include subjects such as English, mathematics, and computer utilization.

Graduates are trained to assist attorneys in probate work, investigations, public records search, drafting and filing legal documents, research, and office management. Employment opportunities are available in private law firms, governmental agencies, banks, insurance agencies, and other business organizations.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- LEX 130 - Civil Injuries **Credits: 3**
- LEX 140 - Civil Litigation I **Credits: 3**
- LEX 141 - Civil Litigation II **Credits: 3**
- LEX 150 - Commercial Law I **Credits: 3**

- LEX 240 - Family Law **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- LEX 140 - Civil Litigation I **Credits: 3**
- LEX 150 - Commercial Law I **Credits: 3**

#### Spring I

- LEX 141 - Civil Litigation II **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**

#### Fall II

- LEX 130 - Civil Injuries **Credits: 3**
- LEX 240 - Family Law **Credits: 3**

# C25380CP - Paralegal Technology - Civil Litigation Pathway

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Paralegal Technology | C25380CP     |

### Program Description

The Paralegal Technology curriculum prepares individuals to work under the supervision of attorneys by performing routine legal tasks and assisting with substantive legal work. A paralegal/legal assistant may not practice law, give legal advice, or represent clients in a court of law.

Course work includes substantive and procedural legal knowledge in the areas of civil litigation, legal research and writing, real estate, family law, wills, estates, trusts, and commercial law. Required courses also include subjects such as English, mathematics, and computer utilization.

Graduates are trained to assist attorneys in probate work, investigations, public records search, drafting and filing legal documents, research, and office management. Employment opportunities are available in private law firms, governmental agencies, banks, insurance agencies, and other business organizations.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- LEX 130 - Civil Injuries **Credits: 3**
- LEX 140 - Civil Litigation I **Credits: 3**
- LEX 141 - Civil Litigation II **Credits: 3**
- LEX 150 - Commercial Law I **Credits: 3**

- LEX 240 - Family Law **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- LEX 140 - Civil Litigation I **Credits: 3**
- LEX 150 - Commercial Law I **Credits: 3**

#### Spring I

- LEX 141 - Civil Litigation II **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**

#### Fall II

- LEX 130 - Civil Injuries **Credits: 3**
- LEX 240 - Family Law **Credits: 3**

# C25380E - Paralegal Technology - Elder Law Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Paralegal Technology | C25380E      |

### Program Description

The Paralegal Technology curriculum prepares individuals to work under the supervision of attorneys by performing routine legal tasks and assisting with substantive legal work. A paralegal/legal assistant may not practice law, give legal advice, or represent clients in a court of law.

Course work includes substantive and procedural legal knowledge in the areas of civil litigation, legal research and writing, real estate, family law, wills, estates, trusts, and commercial law. Required courses also include subjects such as English, mathematics, and computer utilization.

Graduates are trained to assist attorneys in probate work, investigations, public records search, drafting and filing legal documents, research, and office management. Employment opportunities are available in private law firms, governmental agencies, banks, insurance agencies, and other business organizations.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- LEX 120 - Legal Research/Writing I **Credits: 3**
- LEX 210 - Real Property I **Credits: 3**
- LEX 240 - Family Law **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**

- LEX 280 - Ethics & Professionalism **Credits: 2**
- LEX 288 - Elder Law **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- LEX 210 - Real Property I **Credits: 3**
- LEX 240 - Family Law **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**

#### Spring I

- LEX 120 - Legal Research/Writing I **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**
- LEX 280 - Ethics & Professionalism **Credits: 2**
- LEX 288 - Elder Law **Credits: 3**

# C25380R - Paralegal Technology - Real Property Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Paralegal Technology | C25380R      |

### Program Description

The Paralegal Technology curriculum prepares individuals to work under the supervision of attorneys by performing routine legal tasks and assisting with substantive legal work. A paralegal/legal assistant may not practice law, give legal advice, or represent clients in a court of law.

Course work includes substantive and procedural legal knowledge in the areas of civil litigation, legal research and writing, real estate, family law, wills, estates, trusts, and commercial law. Required courses also include subjects such as English, mathematics, and computer utilization.

Graduates are trained to assist attorneys in probate work, investigations, public records search, drafting and filing legal documents, research, and office management. Employment opportunities are available in private law firms, governmental agencies, banks, insurance agencies, and other business organizations.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- LEX 150 - Commercial Law I **Credits: 3**
- LEX 210 - Real Property I **Credits: 3**
- LEX 211 - Real Property II **Credits: 3**
- LEX 240 - Family Law **Credits: 3**

- LEX 250 - Wills, Estates, & Trusts **Credits: 3**
- LEX 260 - Bankruptcy and Collections **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- LEX 150 - Commercial Law I **Credits: 3**
- LEX 210 - Real Property I **Credits: 3**

#### Spring I

- LEX 211 - Real Property II **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**

#### Fall II

- LEX 240 - Family Law **Credits: 3**
- LEX 260 - Bankruptcy and Collections **Credits: 3**

# C25450 - Simulation and Game Development Certificate

## Overview

### Department Title      Program Code

Simulation & Game Development      C25450

### Program Description

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3D modeling, and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, testers, quality assurance analysts, engineers and administrators in the entertainment industry, health care, education, corporate training, and government organizations.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- SGD 111 - Introduction to SGD **Credits: 3**
- SGD 112 - SGD Design I **Credits: 3**
- SGD 113 - SGD Programming I **Credits: 3**
- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 116 - SGD Graphic Design Tools **Credits: 3**
- SGD 212 - SGD Design II **Credits: 3**

## Total Credits: 18 Semester Sequence

### Semester Sequence

#### Fall I

- SGD 111 - Introduction to SGD **Credits: 3**
- SGD 112 - SGD Design I **Credits: 3**

#### Spring I

- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 212 - SGD Design II **Credits: 3**

#### Summer

- SGD 113 - SGD Programming I **Credits: 3**
- SGD 116 - SGD Graphic Design Tools **Credits: 3**



# C25450B - Game Development 3D Modeling and Animation Certificate

## Overview

| Department Title                 | Program Code |
|----------------------------------|--------------|
| Simulation & Game<br>Development | C25450B      |

## Program Description

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3D modeling, and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, testers, quality assurance analysts, engineers and administrators in the entertainment industry, health care, education, corporate training, and government organizations.

## Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 116 - SGD Graphic Design Tools **Credits: 3**
- SGD 117 - Art for Games **Credits: 3**
- SGD 162 - SGD 3D Animation I **Credits: 3**
- SGD 214 - SGD 3D Modeling II **Credits: 3**
- SGD 262 - SGD 3D Animation II **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 162 - SGD 3D Animation I **Credits: 3**

#### Spring I

- SGD 117 - Art for Games **Credits: 3**
- SGD 214 - SGD 3D Modeling II **Credits: 3**
- SGD 262 - SGD 3D Animation II **Credits: 3**

#### Summer

- SGD 116 - SGD Graphic Design Tools **Credits: 3**

# C25450C - Simulation and Game Development - Game Environment Certificate

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Simulation & Game Development | C25450C      |

## Program Description

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3D modeling, and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, testers, quality assurance analysts, engineers and administrators in the entertainment industry, health care, education, corporate training, and government organizations.

## Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 114 - Architectural CAD **Credits: 2**
- ARC 114A - Architectural CAD Lab **Credits: 1**
- ARC 225 - Architectural BIM I **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 117 - Art for Games **Credits: 3**

- SGD 214 - SGD 3D Modeling II **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 114 - Architectural CAD **Credits: 2**
- ARC 114A - Architectural CAD Lab **Credits: 1**
- SGD 114 - SGD 3D Modeling I **Credits: 3**

#### Spring I

- ARC 225 - Architectural BIM I **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- SGD 117 - Art for Games **Credits: 3**
- SGD 214 - SGD 3D Modeling II **Credits: 3**

# C25450CP - Simulation and Game Development Pathway

## Overview

### Department Title      Program Code

Simulation & Game  
Development      C25450CP

### Program Description

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3D modeling, and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, testers, quality assurance analysts, engineers and administrators in the entertainment industry, health care, education, corporate training, and government organizations.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- SGD 111 - Introduction to SGD **Credits: 3**
- SGD 112 - SGD Design I **Credits: 3**
- SGD 113 - SGD Programming I **Credits: 3**
- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 116 - SGD Graphic Design Tools **Credits: 3**
- SGD 212 - SGD Design II **Credits: 3**

**Total Credits: 18**  
**Semester Sequence**

### Semester Sequence

#### Fall I

- SGD 111 - Introduction to SGD **Credits: 3**
- SGD 112 - SGD Design I **Credits: 3**
- SGD 113 - SGD Programming I **Credits: 3**

#### Spring I

- SGD 114 - SGD 3D Modeling I **Credits: 3**
- SGD 116 - SGD Graphic Design Tools **Credits: 3**
- SGD 212 - SGD Design II **Credits: 3**

# C25590C - Information Technology - Cybersecurity & Networking Certificate

## Overview

|                         |                     |
|-------------------------|---------------------|
| <b>Department Title</b> | <b>Program Code</b> |
| Information Technology  | C25590C             |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CCT 250 - Network Vulnerabilities I **Credits: 3**

- CET 130 - Operating System Prin **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- SEC 160 - Security Administration I **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CET 130 - Operating System Prin **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**

#### Spring I

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- SEC 160 - Security Administration I **Credits: 3**

# C25590CP - Information Technology - Cyber Security Pathway

## Overview

|                         |                     |
|-------------------------|---------------------|
| <b>Department Title</b> | <b>Program Code</b> |
| Information Technology  | C25590CP            |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CCT 250 - Network Vulnerabilities I **Credits: 3**

- CET 130 - Operating System Prin **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- SEC 160 - Security Administration I **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CET 130 - Operating System Prin **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**

#### Spring I

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- SEC 160 - Security Administration I **Credits: 3**

# C25590E - Information Technology - Software Development Certificate

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | C25590E      |

## Program 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.

## Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- CSC 120 - Computing Fundamentals I **Credits: 4**
- CSC 227 - Cloud Application Development **Credits: 3**
- DBA 120 - Database Programming I **Credits: 3**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- DBA 120 - Database Programming I **Credits: 3**

#### Spring I

- CSC 120 - Computing Fundamentals I **Credits: 4**
- CSC 227 - Cloud Application Development **Credits: 3**

# C25590EP - Information Technology - Software Development Pathway

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | C25590EP     |

## Program 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.

## Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- CSC 120 - Computing Fundamentals I **Credits: 4**
- CSC 227 - Cloud Application Development **Credits: 3**
- DBA 120 - Database Programming I **Credits: 3**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**
- DBA 120 - Database Programming I **Credits: 3**

#### Spring I

- CSC 120 - Computing Fundamentals I **Credits: 4**
- CSC 227 - Cloud Application Development **Credits: 3**



# C25590F - Information Technology - Operating Systems Administration Certificate

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | C25590F      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CET 130 - Operating System Prin **Credits: 3**

- CET 245 - Internet Servers **Credits: 3**
- CTI 120 - Network & Sec Foundation **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- TNE 255 - Network Servers **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CTS 120 - Hardware/Software Support **Credits: 3**
- CET 130 - Operating System Prin **Credits: 3**
- CTI 120 - Network & Sec Foundation **Credits: 3**

#### Spring I

- CET 245 - Internet Servers **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- TNE 255 - Network Servers **Credits: 3**

# C25590FP - Information Technology - Operating Systems Administration Pathway

## Overview

**Department Title**      **Program Code**  
Information Technology      C25590FP

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CET 130 - Operating System Prin **Credits: 3**

- CET 245 - Internet Servers **Credits: 3**
- CTI 120 - Network & Sec Foundation **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- TNE 245 - Netwk Perimeter Security **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CET 130 - Operating System Prin **Credits: 3**
- CTI 120 - Network & Sec Foundation **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3**

#### Spring I

- CET 245 - Internet Servers **Credits: 3**
- CTS 220 - Adv Hard/Software Support **Credits: 3**
- TNE 245 - Netwk Perimeter Security **Credits: 3**

# C25590W - Information Technology - Web Designer Certificate

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | C25590W      |

## Program 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.

## Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**
- DME 110 - Intro to Digital Media **Credits: 3**
- WEB 111 - Intro to Web Graphics **Credits: 3**
- WEB 115 - Web Markup and Scripting **Credits: 3**
- WEB 210 - Web Design **Credits: 3**
- WEB 213 - Internet Mkt & Analytics **Credits: 3**

**Total Semester Hours: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**
- WEB 115 - Web Markup and Scripting **Credits: 3**
- DME 110 - Intro to Digital Media **Credits: 3**

#### Spring I

- WEB 111 - Intro to Web Graphics **Credits: 3**
- WEB 210 - Web Design **Credits: 3**
- WEB 213 - Internet Mkt & Analytics **Credits: 3**

# C25590WP - Information Technology - Web Designer Pathway

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | C25590WP     |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**
- DME 110 - Intro to Digital Media **Credits: 3**
- WEB 111 - Intro to Web Graphics **Credits: 3**
- WEB 115 - Web Markup and Scripting **Credits: 3**
- WEB 210 - Web Design **Credits: 3**
- WEB 213 - Internet Mkt & Analytics **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**
- DME 110 - Intro to Digital Media **Credits: 3**
- WEB 115 - Web Markup and Scripting **Credits: 3**

#### Spring I

- WEB 111 - Intro to Web Graphics **Credits: 3**
- WEB 210 - Web Design **Credits: 3**
- WEB 213 - Internet Mkt & Analytics **Credits: 3**

# C25800 - Accounting and Finance Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Accounting & Finance | C25800       |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 150 - Accounting Software Appl **Credits: 2**

- CIS 110 - Introduction to Computers **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Spring I

- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 150 - Accounting Software Appl **Credits: 2**
- CTS 130 - Spreadsheet **Credits: 3**

# C25800A - Forensic Accounting Analytics Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Accounting & Finance | C25800A      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 267 - Fraud Examination **Credits: 3**
- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 121 - Data Visualization **Credits: 3**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BAS 120 - Intro to Analytics **Credits: 3**

#### Spring I

- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 267 - Fraud Examination **Credits: 3**
- BAS 121 - Data Visualization **Credits: 3**

# C25800AP - Forensic Accounting Analytics Pathway

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Accounting & Finance | C25800AP     |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC-120 Prin of Financial Accounting **Credits: 4**
- ACC-122 Prin of Financial Acct II **Credits: 3**
- ACC-267 Fraud Examination **Credits 3**
- BAS-120 Intro to Analytics **Credits: 3**
- BAS-121 Data Visualization **Credits: 3**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall Semester I

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BAS 120 - Intro to Analytics **Credits: 3**

#### Spring Semester I

- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 267 - Fraud Examination **Credits: 3**
- BAS 121 - Data Visualization **Credits: 3**



# C25800B - Accounting Analytics Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Accounting & Finance | C25800B      |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 150 - Accounting Software Appl **Credits: 2**
- BAS 120 - Intro to Analytics **Credits: 3**

- BAS 121 - Data Visualization **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BAS 120 - Intro to Analytics **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**

#### Spring I

- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 150 - Accounting Software Appl **Credits: 2**
- BAS 121 - Data Visualization **Credits: 3**

# C25800C - Accounting Fraud Network Security & Cybersecurity Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Accounting & Finance | C25800C      |

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 267 - Fraud Examination **Credits: 3**
- CCT 121 - Computer Crime Invest. **Credits: 4**

- CTI 120 - Network & Sec Foundation **Credits: 3**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- CTI 120 - Network & Sec Foundation **Credits: 3**

#### Spring I

- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 267 - Fraud Examination **Credits: 3**
- CCT 121 - Computer Crime Invest. **Credits: 4**

# C25800CP - Accounting and Finance Pathway

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Accounting & Finance | C25800CP     |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 150 - Accounting Software Appl **Credits: 2**

- CIS 110 - Introduction to Computers **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Spring I

- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 150 - Accounting Software Appl **Credits: 2**
- CTS 130 - Spreadsheet **Credits: 3**

# C25800D - Accounting and Finance - Bookkeeping Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Accounting & Finance | C25800D      |

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 150 - Accounting Software Appl **Credits: 2**

- ACC 180 - Practices in Bookkeeping **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Spring I

- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 150 - Accounting Software Appl **Credits: 2**
- ACC 180 - Practices in Bookkeeping **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**

# C30100 - Graphic Design Certificate

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Graphic Design   | C30100       |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 131 - Drawing I **Credits: 3**
- GRD 110 - Typography I **Credits: 3**
- GRD 142 - Graphic Design II **Credits: 4**
- GRD 151 - Computer Design Basics **Credits: 3**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 131 - Drawing I **Credits: 3**

#### Spring I

- GRD 110 - Typography I **Credits: 3**
- GRD 151 - Computer Design Basics **Credits: 3**

#### Fall II

- GRD 142 - Graphic Design II **Credits: 4**

# C30100A - Graphic Design - Animation & Illustration Certificate

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Graphic Design   | C30100A      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ART 131 - Drawing I **Credits: 3**
- GRD 131 - Illustration I **Credits: 2**
- GRD 132 - Illustration II **Credits: 3**
- GRD 151 - Computer Design Basics **Credits: 3**
- GRD 271 - Multimedia and Video I **Credits: 3**

- GRD 275 - Animation I **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- ART 131 - Drawing I **Credits: 3**
- GRD 151 - Computer Design Basics **Credits: 3**

#### Spring I

- GRD 131 - Illustration I **Credits: 2**
- GRD 271 - Multimedia and Video I **Credits: 3**

#### Fall II

- GRD 132 - Illustration II **Credits: 3**
- GRD 275 - Animation I **Credits: 3**

# C30100CP - Graphic Design Pathway

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Graphic Design   | C30100CP     |

## Program 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.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 131 - Drawing I **Credits: 3**
- GRD 110 - Typography I **Credits: 3**
- GRD 142 - Graphic Design II **Credits: 4**
- GRD 151 - Computer Design Basics **Credits: 3**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 131 - Drawing I **Credits: 3**

#### Spring I

- GRD 110 - Typography I **Credits: 3**
- GRD 151 - Computer Design Basics **Credits: 3**

#### Fall II

- GRD 142 - Graphic Design II **Credits: 4**



# C30140 - Film and Video Production Technology Certificate

## Overview

**Department Title**      **Program Code**  
Film & Video Production      C30140  
Tech

## Program Description

The Film and Video Production Technology curriculum prepares students for entry-level employment in production support and selected technical areas of film, video, and associated media production. Instruction provides training for entry-level crew and/or production and post-production assistants in many moving image media forms.

The first year content includes exposure to the entire production process. Students are taught by industry professionals who provide extensive hands-on instruction. In the second year, students receive professional training by performing in various crew positions on actual production projects.

Graduates may find employment as entry-level crew and/or production assistants in feature and short films, commercials, and industrial, educational, and documentary productions. Other opportunities include entry-level employment in pre-production and post-production areas for film and video.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CIS 110 - Introduction to Computers **Credits: 3**
- FVP 111 - Intro. to Film and Video **Credits: 3**

- FVP 114 - Camera & Lighting I **Credits: 3**
- FVP 115 - Camera & Lighting II **Credits: 3**
- FVP 116 - Sound Operations **Credits: 3**
- FVP 220 - Editing I **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers **Credits: 3**
- FVP 111 - Intro. to Film and Video **Credits: 3**
- FVP 114 - Camera & Lighting I **Credits: 3**

#### Spring I

- FVP 115 - Camera & Lighting II **Credits: 3**
- FVP 116 - Sound Operations **Credits: 3**

#### Summer I

- FVP 220 - Editing I **Credits: 3**

# C30140CP - Film and Video Production Technology Pathway

## Overview

### Department Title      Program Code

Film & Video Production      C30140CP  
Tech

### Program Description

The Film and Video Production Technology curriculum prepares students for entry-level employment in production support and selected technical areas of film, video, and associated media production.

Instruction provides training for entry-level crew and/or production and post-production assistants in many moving image media forms.

The first year content includes exposure to the entire production process. Students are taught by industry professionals who provide extensive hands-on instruction. In the second year, students receive professional training by performing in various crew positions on actual production projects.

Graduates may find employment as entry-level crew and/or production assistants in feature and short films, commercials, and industrial, educational, and documentary productions. Other opportunities include entry-level employment in pre-production and post-production areas for film and video.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CIS 110 - Introduction to Computers **Credits: 3**
- FVP 111 - Intro. to Film and Video **Credits: 3**
- FVP 114 - Camera & Lighting I **Credits: 3**

- FVP 115 - Camera & Lighting II **Credits: 3**
- FVP 116 - Sound Operations **Credits: 3**
- FVP 220 - Editing I **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers **Credits: 3**
- FVP 111 - Intro. to Film and Video **Credits: 3**
- FVP 114 - Camera & Lighting I **Credits: 3**

#### Spring I

- FVP 115 - Camera & Lighting II **Credits: 3**
- FVP 116 - Sound Operations **Credits: 3**

#### Summer

- FVP 220 - Editing I **Credits: 3**

# C30220 - Interior Design Certificate

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Interior Design  | C30220       |

## Program Description

The Interior Design curriculum is designed to prepare students for a variety of job opportunities in the field of both residential and non-residential interior design. The focus of the studies is technical knowledge, professional practices, and aesthetic principles.

Curriculum content includes residential and non-residential interior design, architectural drafting, computer-aided design, and universal design. Also included are basic design, history of interiors and furnishings, color theory, products, business practices, graphic presentations, and general education courses.

Graduates should qualify for a variety of jobs including residential and commercial interior design, set design, showroom design, and sales positions for furniture, textiles and accessories, and all businesses dealing with interiors.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- DES 110 - Architectural Graphics **Credits: 2**
- DES 120 - CAD for Interior Design **Credits: 2**
- DES 125 - Visual Presentation I **Credits: 2**
- DES 135 - Prin & Elem of Design I **Credits: 4**
- DES 220 - Interior Design Fundamentals **Credits: 3**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- DES 110 - Architectural Graphics **Credits: 2**
- DES 125 - Visual Presentation I **Credits: 2**
- DES 135 - Prin & Elem of Design I **Credits: 4**

#### Spring I

- DES 120 - CAD for Interior Design **Credits: 2**
- DES 220 - Interior Design Fundamentals **Credits: 3**

# C30220CP - Interior Design Pathway

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Interior Design  | C30220CP     |

### Program Description

The Interior Design curriculum is designed to prepare students for a variety of job opportunities in the field of both residential and non-residential interior design.

The focus of the studies is technical knowledge, professional practices, and aesthetic principles and design process.

Curriculum content includes residential and non-residential interior design, architectural drafting, computer-aided design, and universal design. Also included are basic design, code standards, history of interiors and furnishings, color theory, products, professional practices, visual presentations, and sustainable principles.

Graduates should qualify for interior design opportunities in numerous residential and commercial environments such as hospitality, corporate, mercantile, educational, and healthcare. Interior designers also have employment opportunities in real estate, entertainment, visual merchandising, government, sales and marketing, and other specialties dealing with interiors.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- DES 110 - Architectural Graphics **Credits: 2**
- DES 120 - CAD for Interior Design **Credits: 2**
- DES 125 - Visual Presentation I **Credits: 2**

- DES 135 - Prin & Elem of Design I **Credits: 4**
- DES 220 - Interior Design Fundamentals **Credits: 3**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- DES 110 - Architectural Graphics **Credits: 2**
- DES 125 - Visual Presentation I **Credits: 2**
- DES 135 - Prin & Elem of Design I **Credits: 4**

#### Spring I

- DES 120 - CAD for Interior Design **Credits: 2**
- DES 220 - Interior Design Fundamentals **Credits: 3**

# C35100 - Air Conditioning, Heating & Refrigeration Technology Certificate

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| A/C, Heating & Refrigeration | C35100       |

## Program Description

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 111 - HVACR Electricity **Credits: 3**
- AHR 114 - Heat Pump Technology **Credits: 4**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 111 - HVACR Electricity **Credits: 3**

#### Spring I

- AHR 114 - Heat Pump Technology **Credits: 4**

# C35100CP - Air Conditioning, Heating & Refrigeration Technology Pathway

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| A/C, Heating & Refrigeration | C35100CP     |

## Program Description

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 111 - HVACR Electricity **Credits: 3**
- AHR 114 - Heat Pump Technology **Credits: 4**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- AHR 110 - Intro to Refrigeration **Credits: 5**

#### Spring I

- AHR 111 - HVACR Electricity **Credits: 3**
- AHR 114 - Heat Pump Technology **Credits: 4**

# C35100R - Air Conditioning, Heating & Refrigeration Technology - Commercial Refrigeration Certificate

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| A/C, Heating & Refrigeration | C35100R      |

### Program Description

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 111 - HVACR Electricity **Credits: 3**
- AHR 115 - Refrigeration Systems **Credits: 2**

- AHR 215 - Commercial HVAC Controls **Credits: 2**
- AHR 245 - Chiller Systems **Credits: 2**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall I

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 111 - HVACR Electricity **Credits: 3**

#### Spring I

- AHR 115 - Refrigeration Systems **Credits: 2**
- AHR 215 - Commercial HVAC Controls **Credits: 2**
- AHR 245 - Chiller Systems **Credits: 2**



# C35100RP - Air Conditioning, Heating & Refrigeration Technology- Commercial Refrigeration Pathway

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| A/C, Heating & Refrigeration | C35100RP     |

### Program Description

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 111 - HVACR Electricity **Credits: 3**
- AHR 115 - Refrigeration Systems **Credits: 2**

- AHR 215 - Commercial HVAC Controls **Credits: 2**
- AHR 245 - Chiller Systems **Credits: 2**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall I

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 111 - HVACR Electricity **Credits: 3**

#### Spring I

- AHR 115 - Refrigeration Systems **Credits: 2**
- AHR 215 - Commercial HVAC Controls **Credits: 2**
- AHR 245 - Chiller Systems **Credits: 2**

# C35120 - Boat Building Certificate

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Boat Building    | C35120       |

## Program Description

The Boat Building curriculum prepares individuals for employment in the boat manufacturing and repair industry. Today's boat builders are skilled craftspeople who can create complex shapes out of wood.

Course work includes reading marine blueprints, lofting, rigging, constructing bird cages, building forms, and the safe and proper use of hand and power tools. Wooden boat building, production moldmaking, and interior cabinetry and joinery are also covered.

Graduates may find employment with yacht manufacturers or with other companies needing wood furniture or moldings fabricated and installed. Other employment opportunities can be found in boat maintenance and repair yards.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### (EVENINGS)

#### Major Requirements

- BTB 101A - Boat Bldg I (part 1) **Credits: 5**
- BTB 101B - Boat Bldg I (part 2) **Credits: 5**
- DFT 100 - Marine Drafting **Credits: 2**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- BTB 101A - Boat Bldg I (part 1) **Credits: 5**
- DFT 100 - Marine Drafting **Credits: 2**

#### Spring I

- BTB 101B - Boat Bldg I (part 2) **Credits: 5**

# C35120CP - Boat Building Pathway

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Boat Building    | C35120CP     |

## Program Description

The Boat Building curriculum prepares individuals for employment in the boat building and boat repair industry. Today's boat builders are highly skilled craftspeople who can create complex shapes out of wood.

Course work includes reading boat plans, lofting, setting up the building jig, fashioning the structural timbers, and different planking techniques. Interior joinery, exterior joinery, and yacht rigging is also covered.

Graduates may find work with yacht manufacturers, high end furniture shops, architectural millwork shops, and companies installing built in furniture in homes. Other opportunities can be found in boat maintenance and repair yards.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BTB 101 - Boat Building I **Credits: 10**
- DFT 100 - Marine Drafting **Credits: 2**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- BTB 101A - Boat Bldg I (part 1) **Credits: 5**
- DFT 100 - Marine Drafting **Credits: 2**

#### Spring I

- BTB 101B - Boat Bldg I (part 2) **Credits: 5**

# C35130 - Electrical Systems Technology Certificate

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Electrical Systems Tech | C35130       |

## Program 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.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ELC 112 - DC/AC Electricity **Credits: 5**
- ELC 113 - Residential Wiring **Credits: 4**
- ELC 117 - Motors and Controls **Credits: 4**
- ISC 112 - Industrial Safety **Credits: 2**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- ELC 112 - DC/AC Electricity **Credits: 5**
- ELC 113 - Residential Wiring **Credits: 4**
- ISC 112 - Industrial Safety **Credits: 2**

#### Spring I

- ELC 117 - Motors and Controls **Credits: 4**

# C35130CP - Electrical Systems Technology Pathway

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Electrical Systems Tech | C35130CP     |

## Program 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.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ELC 112 - DC/AC Electricity **Credits: 5**
- ELC 113 - Residential Wiring **Credits: 4**
- ELC 117 - Motors and Controls **Credits: 4**
- ISC 112 - Industrial Safety **Credits: 2**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- ELC 112 - DC/AC Electricity **Credits: 5**
- ELC 113 - Residential Wiring **Credits: 4**
- ISC 112 - Industrial Safety **Credits: 2**

#### Spring I

- ELC 117 - Motors and Controls **Credits: 4**

# C35190 - Construction Management Technology Certificate

## Overview

### Department Title      Program Code

Construction Management C35190

Tech

### Program 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.

Construction Management Technology: A program that prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. Includes instruction in site safety, personnel supervision, labor relations, diversity training, construction documentation, scheduling, resource and cost control, bid strategies, rework prevention, construction insurance and bonding, accident management and investigation, applicable law and regulations, and communication skills.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BPR 130 - Print Reading-Construction  
**Credits: 3**
- CMT 210 - Construction Management Fund  
**Credits: 3**
- CMT 212 - Total Safety Performance **Credits: 3**
- CMT 214 - Planning and Scheduling **Credits: 3**
- CST 241 - Planning/Estimating I **Credits: 3**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- BPR 130 - Print Reading-Construction  
**Credits: 3**
- CMT 210 - Construction Management Fund  
**Credits: 3**

#### Spring I

- CMT 212 - Total Safety Performance **Credits: 3**

#### Fall II

- CMT 214 - Planning and Scheduling **Credits: 3**
- CST 241 - Planning/Estimating I **Credits: 3**

# C35190A - Construction Management Technology - Project Management Certificate

## Overview

### Department Title      Program Code

Construction Management C35190A  
Tech

### Program 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.

Construction Management Technology: A program that prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. Includes instruction in site safety, personnel supervision, labor relations, diversity training, construction documentation, scheduling, resource and cost control, bid strategies, rework prevention, construction insurance and bonding, accident management and investigation, applicable law and regulations, and communication skills.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BUS 240 - Business Ethics **Credits: 3**
- CMT 120 - Codes and Inspections **Credits: 3**
- CMT 210 - Construction Management Fund **Credits: 3**
- CMT 218 - Human Relations Issues **Credits: 3**

### Total Credits: 12

## Semester Sequence

### Semester Sequence

#### Fall I

- CMT 120 - Codes and Inspections **Credits: 3**
- CMT 210 - Construction Management Fund **Credits: 3**

#### Spring I

- BUS 240 - Business Ethics **Credits:3**
- CMT 218 - Human Relations Issues **Credits: 3**



# C35190CP - Construction Management Technology Pathway

## Overview

### Department Title      Program Code

Construction Management C35190CP  
Tech

### Program Description

The Construction Management Technology curriculum is designed to prepare individuals for careers in the construction management field. Such positions may include project manager, superintendent, estimator, or foreman.

Course work includes safety, planning, scheduling, cost control, productivity, human relations, estimating, and building codes. Students will also gain proficiency in specific construction related skills.

Graduates should qualify for entry-level positions in the field of construction management.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BPR 130 - Print Reading-Construction  
**Credits: 3**
- CMT 210 - Construction Management Fund  
**Credits: 3**
- CMT 212 - Total Safety Performance **Credits: 3**
- CMT 214 - Planning and Scheduling **Credits: 3**
- CST 241 - Planning/Estimating I **Credits: 3**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- BPR 130 - Print Reading-Construction  
**Credits: 3**
- CMT 210 - Construction Management Fund  
**Credits: 3**
- CMT 212 - Total Safety Performance **Credits: 3**

#### Spring I

- CST 241 - Planning/Estimating I **Credits: 3**

#### Fall II

- CMT 214 - Planning and Scheduling **Credits: 3**

# C35190F - Construction Management Technology - Framing Certificate

## Overview

### Department Title      Program Code

Construction Management C35190F  
Tech

### Program 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.

Construction Management Technology: A program that prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. Includes instruction in site safety, personnel supervision, labor relations, diversity training, construction documentation, scheduling, resource and cost control, bid strategies, rework prevention, construction insurance and bonding, accident management and investigation, applicable law and regulations, and communication skills.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BPR 130 - Print Reading-Construction  
**Credits: 3**
- CST 111 - Construction I **Credits: 4**
- CST 112 - Construction II **Credits: 4**
- CMT 120 - Codes and Inspections **Credits: 3**

### Total Credits: 14

## Semester Sequence

### Semester Sequence

#### Fall I

- CST 111 - Construction I **Credits: 4**
- BPR 130 - Print Reading-Construction  
**Credits: 3**

#### Spring I

- CST 112 - Construction II **Credits: 4**
- CMT 120 - Codes and Inspections **Credits: 3**

# C35190FP - Construction Management Technology - Framing Pathway

## Overview

### Department Title      Program Code

Construction Management C35190FP  
Tech

### Program 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.

Construction Management Technology: A program that prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. Includes instruction in site safety, personnel supervision, labor relations, diversity training, construction documentation, scheduling, resource and cost control, bid strategies, rework prevention, construction insurance and bonding, accident management and investigation, applicable law and regulations, and communication skills.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BPR 130 - Print Reading-Construction  
**Credits: 3**
- CMT 120 - Codes and Inspections **Credits: 3**
- CST 111 - Construction I **Credits: 4**
- CST 112 - Construction II **Credits: 4**

### Total Credits: 14

## Semester Sequence

### Semester Sequence

#### Fall I

- BPR 130 - Print Reading-Construction  
**Credits: 3**
- CST 111 - Construction I **Credits: 4**

#### Spring I

- CMT 120 - Codes and Inspections **Credits: 3**
- CST 112 - Construction II **Credits: 4**

# C35190S - Construction Management Technology - Building Performance Certificate

## Overview

### Department Title      Program Code

Construction Management C35190S  
Tech

### Program 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.

Construction Management Technology: A program that prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. Includes instruction in site safety, personnel supervision, labor relations, diversity training, construction documentation, scheduling, resource and cost control, bid strategies, rework prevention, construction insurance and bonding, accident management and investigation, applicable law and regulations, and communication skills.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CST 150 - Building Science **Credits: 3**
- CST 238 - Weatherization **Credits: 3**
- SST 120 - Energy Use Analysis **Credits: 3**
- SST 130 - Modeling Renewable Energy **Credits: 3**
- SST 140 - Green Bldg & Design Concepts **Credits: 3**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- CST 150 - Building Science **Credits: 3**
- SST 140 - Green Bldg & Design Concepts **Credits: 3**

#### Spring I

- CST 238 - Weatherization **Credits: 3**
- SST 120 - Energy Use Analysis **Credits: 3**
- SST 130 - Modeling Renewable Energy **Credits: 3**

# C35300 - Plumbing Certificate

## Overview

|                         |                     |
|-------------------------|---------------------|
| <b>Department Title</b> | <b>Program Code</b> |
| Plumbing                | C35300              |

### Program 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.

Plumbing: A program that prepares individuals to work in the field of plumbing by applying technical knowledge and skills to lay out, assemble, install, and maintain piping fixtures and systems for natural gas, lp gas, hot water, drainage, sprinkling, and plumbing processing systems in residential and commercial environments. Includes instruction in source determination, water service and distribution, waste removal, pressure adjustment, basic physics, technical mathematics, print reading, pipe installation, pumps, soldering, plumbing inspection, and applicable codes and standards.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BPR 130 - Print Reading-Construction **Credits: 3**
- PLU 110 - Modern Plumbing **Credits: 9**

- PLU 140 - Intro to Plumbing Codes **Credits: 2**
- PLU 150 - Plumbing Diagrams **Credits: 2**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- PLU 110 - Modern Plumbing **Credits: 9**
- BPR 130 - Print Reading-Construction **Credits: 3**

#### Spring I

- PLU 140 - Intro to Plumbing Codes **Credits: 2**
- PLU 150 - Plumbing Diagrams **Credits: 2**

# C35300CP - Plumbing Pathway

## Overview

|                         |                     |
|-------------------------|---------------------|
| <b>Department Title</b> | <b>Program Code</b> |
| Plumbing                | C35300CP            |

### Program 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.

Plumbing: A program that prepares individuals to work in the field of plumbing by applying technical knowledge and skills to lay out, assemble, install, and maintain piping fixtures and systems for natural gas, lp gas, hot water, drainage, sprinkling, and plumbing processing systems in residential and commercial environments. Includes instruction in source determination, water service and distribution, waste removal, pressure adjustment, basic physics, technical mathematics, print reading, pipe installation, pumps, soldering, plumbing inspection, and applicable codes and standards.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BPR 130 - Print Reading-Construction **Credits: 3**
- PLU 110 - Modern Plumbing **Credits: 9**

- PLU 140 - Intro to Plumbing Codes **Credits: 2**
- PLU 150 - Plumbing Diagrams **Credits: 2**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- BPR 130 - Print Reading-Construction **Credits: 3**
- PLU 110 - Modern Plumbing **Credits: 9**

#### Spring I

- PLU 140 - Intro to Plumbing Codes **Credits: 2**
- PLU 150 - Plumbing Diagrams **Credits: 2**

# C40100 - Architectural Technology Certificate

## Overview

### Department Title      Program Code

Architectural Technology    C40100

### Program 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.

Architectural Technology: A program that prepares individuals to assist architects, engineers, and construction professionals in developing plans and related documentation for residential and commercial projects in both the private and public sectors. Includes instruction in architectural drafting, computer-assisted drafting, construction materials and methods, environmental systems, codes and standards, structural principles, cost estimation, planning, graphics, and presentation.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 112 - Constr Matls & Methods **Credits: 4**
- ARC 114 - Architectural CAD **Credits: 2**
- ARC 114A - Architectural CAD Lab **Credits: 1**
- ARC 220 - Adv Architect CAD **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- ARC 225 - Architectural BIM I **Credits: 2**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 114 - Architectural CAD **Credits: 2**
- ARC 114A - Architectural CAD Lab **Credits: 1**

#### Spring I

- ARC 112 - Constr Matls & Methods **Credits: 4**
- ARC 220 - Adv Architect CAD **Credits: 2**
- ARC 225 - Architectural BIM I **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**



# C40100A - Architectural Technology - Advanced BIM Option Certificate

## Overview

**Department Title**      **Program Code**  
Architectural Technology    C40100A

## Program 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.

**Architectural Technology:** A program that prepares individuals to assist architects, engineers, and construction professionals in developing plans and related documentation for residential and commercial projects in both the private and public sectors. Includes instruction in architectural drafting, computer-assisted drafting, construction materials and methods, environmental systems, codes and standards, structural principles, cost estimation, planning, graphics, and presentation.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 112 - Constr Matls & Methods **Credits: 4**
- ARC 114 - Architectural CAD **Credits: 2**
- ARC 114A - Architectural CAD Lab **Credits: 1**
- ARC 225 - Architectural BIM I **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- ARC 226 - Architectural BIM II **Credits: 2**
- ARC 226A - Architectural BIM II Lab **Credits: 1**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Spring Semester I

- ARC 112 - Constr Matls & Methods **Credits: 4**
- ARC 225 - Architectural BIM I **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**

#### Fall Semester I

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 114 - Architectural CAD **Credits: 2**
- ARC 114A - Architectural CAD Lab **Credits: 1**
- ARC 226 - Architectural BIM II **Credits: 2**
- ARC 226A - Architectural BIM II Lab **Credits: 1**

# C40100CP - Architectural Technology Pathway

## Overview

### Department Title      Program Code

Architectural Technology    C40100CP

### Program 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.

Architectural Technology: A program that prepares individuals to assist architects, engineers, and construction professionals in developing plans and related documentation for residential and commercial projects in both the private and public sectors. Includes instruction in architectural drafting, computer-assisted drafting, construction materials and methods, environmental systems, codes and standards, structural principles, cost estimation, planning, graphics, and presentation.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 112 - Constr Matls & Methods **Credits: 4**
- ARC 114 - Architectural CAD **Credits: 2**
- ARC 114A - Architectural CAD Lab **Credits: 1**
- ARC 220 - Adv Architect CAD **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**
- ARC 225 - Architectural BIM I **Credits: 2**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- ARC 111 - Intro to Arch Technology **Credits: 3**
- ARC 114 - Architectural CAD **Credits: 2**
- ARC 114A - Architectural CAD Lab **Credits: 1**

#### Spring I

- ARC 112 - Constr Matls & Methods **Credits: 4**
- ARC 220 - Adv Architect CAD **Credits: 2**
- ARC 225 - Architectural BIM I **Credits: 2**
- ARC 225A - Architectural BIM I Lab **Credits: 1**

# C40200 - Electronics Engineering Technology Certificate

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Electronics Engineering Tech | C40200       |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- ELC 131 - Circuit Analysis I **Credits: 4**

- ELN 131 - Analog Electronics I **Credits: 4**
- ELN 133 - Digital Electronics **Credits: 4**
- ELN 152 - Fabrication Techniques **Credits: 2**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 152 - Fabrication Techniques **Credits: 2**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**

#### Spring I

- ELN 131 - Analog Electronics I **Credits: 4**
- ELN 133 - Digital Electronics **Credits: 4**

# C40200C - Electronics Engineering - Industrial Controls Certificate

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Electronics Engineering Tech | C40200C      |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ATR 112 - Intro to Automation **Credits: 3**
- ELC 111 - Intro to Electricity **Credits: 3**

- ELC 128 - Intro to PLC **Credits: 3**
- ELN 152 - Fabrication Techniques **Credits: 2**
- ELN 231 - Industrial Controls **Credits: 3**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall Semester I

- ELC 111 - Intro to Electricity **Credits: 3**
- ELN 152 - Fabrication Techniques **Credits: 2**

#### Spring Semester I

- ATR 112 - Intro to Automation **Credits: 3**
- ELC 128 - Intro to PLC **Credits: 3**

#### Summer Semester

- ELN 231 - Industrial Controls **Credits: 3**

# C40200CP - Electronics Engineering Technology Pathway

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Electronics Engineering Tech | C40200CP     |

## Program 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, construction technicians and managers, industrial and technology managers, or research technicians

Electronics Engineering Technology: A course of study that 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- ELC 128 - Intro to PLC **Credits: 3**
- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 131 - Analog Electronics I **Credits: 4**
- ELN 133 - Digital Electronics **Credits: 4**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- ELC 131 - Circuit Analysis I **Credits: 3**
- ELC 128 - Intro to PLC **Credits: 3**

#### Spring I

- ELN 131 - Analog Electronics I **Credits: 4**
- ELN 133 - Digital Electronics **Credits: 4**

# C40200DP - Electronics Engineering Technology - Drone Systems Pathway

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Electronics Engineering Tech | C40200DP     |

## Program 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.

Degree  
Certificate

## Program of Study

## Program Requirements

### Major Requirements

- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 152 - Fabrication Techniques **Credits: 2**
- ELN 275 - Troubleshooting **Credits: 2**
- UAS 110 - Intro to UAS Operations **Credits: 3**
- UAS 111 - Unmanned Aircraft Systems **Credits: 3**
- UAS 115 - Small UAS Certification **Credits: 2**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 152 - Fabrication Techniques **Credits: 2**

#### Spring I

- ELN 275 - Troubleshooting **Credits: 2**
- UAS 110 - Intro to UAS Operations **Credits: 3**
- UAS 111 - Unmanned Aircraft Systems **Credits: 3**
- UAS 115 - Small UAS Certification **Credits: 2**

# C40200DS - Electronics Engineering Technology - Drone Systems Certificate

## Overview

|                              |                     |
|------------------------------|---------------------|
| <b>Department Title</b>      | <b>Program Code</b> |
| Electronics Engineering Tech | C40200DS            |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 152 - Fabrication Techniques **Credits: 2**

- ELN 275 - Troubleshooting **Credits: 2**
- UAS 110 - Intro to UAS Operations **Credits: 3**
- UAS 111 - Unmanned Aircraft Systems **Credits: 3**
- UAS 115 - Small UAS Certification **Credits: 2**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 152 - Fabrication Techniques **Credits: 2**

#### Spring I

- ELN 275 - Troubleshooting **Credits: 2**
- UAS 110 - Intro to UAS Operations **Credits: 3**
- UAS 111 - Unmanned Aircraft Systems **Credits: 3**
- UAS 115 - Small UAS Certification **Credits: 2**



# C40200L - Electronics Engineering - LAN Cabling Certificate

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Electronics Engineering Tech | C40200L      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CET 125 - Voice and Data Cabling **Credits: 3**
- ELC 131 - Circuit Analysis I **Credits: 4**

- ELN 152 - Fabrication Techniques **Credits: 2**
- ELN 236 - Fiber Optics and Lasers **Credits: 4**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall Semester I

- ELN 152 - Fabrication Techniques **Credits: 2**
- ELC 131 - Circuit Analysis I **Credits: 4**

#### Spring Semester I

- CET 125 - Voice and Data Cabling **Credits: 3**
- ELN 236 - Fiber Optics and Lasers **Credits: 4**

# C40320C - Mechanical Engineering Technology Certificate

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Mechanical Engineering Tech | C40320C      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- DFT 151 - CAD I **Credits: 3**
- DFT 154 - Intro Solid Modeling **Credits: 3**
- EGR 110 - Intro to Engineering Tech **Credits: 2**
- ELC 111 - Intro to Electricity **Credits: 3**
- MEC 145 - Mfg Materials I **Credits: 3**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall I

- DFT 151 - CAD I **Credits: 3**
- EGR 110 - Intro to Engineering Tech **Credits: 2**

#### Spring I

- DFT 154 - Intro Solid Modeling **Credits: 3**
- ELC 111 - Intro to Electricity **Credits: 3**
- MEC 145 - Mfg Materials I **Credits: 3**

# C40320CP - Mechanical Engineering Technology Pathway

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Mechanical Engineering Tech | C40320CP     |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- DFT 151 - CAD I **Credits: 3**
- DFT 154 - Intro Solid Modeling **Credits: 3**
- EGR 110 - Intro to Engineering Tech **Credits: 2**
- ELC 111 - Intro to Electricity **Credits: 3**
- MEC 145 - Mfg Materials I **Credits: 3**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall Semester I

- DFT 151 - CAD I **Credits: 3**
- EGR 110 - Intro to Engineering Tech **Credits: 2**

#### Spring Semester I

- DFT 154 - Intro Solid Modeling **Credits: 3**
- ELC 111 - Intro to Electricity **Credits: 3**
- MEC 145 - Mfg Materials I **Credits: 3**

# C40320D - Mechanical Engineering Technology - CAD Drafting Certificate

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Mechanical Engineering Tech | C40320D      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- DFT 111 - Technical Drafting I **Credits: 2**
- DFT 111A - Technical Drafting I Lab **Credits: 1**
- DFT 112 - Technical Drafting II **Credits: 2**
- DFT 112A - Technical Drafting II Lab **Credits: 1**
- DFT 151 - CAD I **Credits: 3**
- DFT 154 - Intro Solid Modeling **Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- DFT 151 - CAD I **Credits: 3**
- DFT 111 - Technical Drafting I **Credits: 2**
- DFT 111A - Technical Drafting I Lab **Credits: 1**

#### Spring I

- DFT 154 - Intro Solid Modeling **Credits: 3**
- DFT 112 - Technical Drafting II **Credits: 2**
- DFT 112A - Technical Drafting II Lab **Credits: 1**

# C40320DP - Mechanical Engineering Technology - CAD Drafting Pathway

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Mechanical Engineering Tech | C40320DP     |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- DFT 111 - Technical Drafting I **Credits: 2**
- DFT 111A - Technical Drafting I Lab **Credits: 1**
- DFT 112 - Technical Drafting II **Credits: 2**
- DFT 112A - Technical Drafting II Lab **Credits: 1**
- DFT 151 - CAD I **Credits: 3**
- DFT 154 - Intro Solid Modeling **Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- DFT 151 - CAD I **Credits: 3**
- DFT 111 - Technical Drafting I **Credits: 2**
- DFT 111A - Technical Drafting I Lab **Credits: 1**

#### Spring I

- DFT 154 - Intro Solid Modeling **Credits: 3**
- DFT 112 - Technical Drafting II **Credits: 2**
- DFT 112A - Technical Drafting II Lab **Credits: 1**

# C40320P - Mechanical Engineering Technology - 3D Printing Certificate

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Mechanical Engineering Tech | C40320P      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- DFT 154 - Intro Solid Modeling **Credits: 3**
- DFT 254 - Intermed Solid Model/Render **Credits: 3**
- TDP 110 - Introduction to 3D Printing **Credits: 3**
- TDP 140 - Precision 3D Printing **Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- DFT 154 - Intro Solid Modeling **Credits: 3**

#### Spring I

- TDP 110 - Introduction to 3D Printing **Credits: 3**

#### Summer

- TDP 140 - Precision 3D Printing **Credits: 3**
- DFT 254 - Intermed Solid Model/Render **Credits: 3**

# C40320PP - Mechanical Engineering Technology - 3D Printing Pathway

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Mechanical Engineering Tech | C40320PP     |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- DFT 154 - Intro Solid Modeling **Credits: 3**
- DFT 254 - Intermed Solid Model/Render **Credits: 3**
- TDP 110 - Introduction to 3D Printing **Credits: 3**
- TDP 140 - Precision 3D Printing **Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- DFT 154 - Intro Solid Modeling **Credits: 3**

#### Spring I

- TDP 110 - Introduction to 3D Printing **Credits: 3**

#### Summer

- TDP 140 - Precision 3D Printing **Credits: 3**
- DFT 254 - Intermed Solid Model/Render **Credits: 3**



# C40350 - Mechatronics Engineering Technology - Automation Certificate

## Overview

### Department Title      Program Code

Mechatronics Engineering   C40350  
Tech

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ATR 112 - Intro to Automation **Credits: 3**
- ATR 280 - Robotic Fundamentals **Credits: 4**
- ELC 131 - Circuit Analysis I **Credits: 4**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall I

- ELC 131 - Circuit Analysis I **Credits: 4**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

#### Spring I

- ATR 112 - Intro to Automation **Credits: 3**
- ATR 280 - Robotic Fundamentals **Credits: 4**

# C40350A - Mechatronics Engineering Technology - Advanced Manufacturing Certificate

## Overview

### Department Title      Program Code

Mechatronics Engineering Tech      C40350A

### Program 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.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ATR 112 - Intro to Automation **Credits: 3**
- ATR 280 - Robotic Fundamentals **Credits: 4**
- ELC 131 - Circuit Analysis I **Credits: 4**
- MEC 130 - Mechanisms **Credits: 3**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- ELC 131 - Circuit Analysis I **Credits: 4**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

#### Spring I

- ATR 112 - Intro to Automation **Credits: 3**
- ATR 280 - Robotic Fundamentals **Credits: 4**
- MEC 130 - Mechanisms **Credits: 3**

# C40350CP - Mechatronics Engineering Technology Pathway

## Overview

### Department Title      Program Code

Mechatronics Engineering C40350CP  
Tech

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ATR 112 - Intro to Automation **Credits: 3**
- ATR 280 - Robotic Fundamentals **Credits: 4**
- ELC 131 - Circuit Analysis I **Credits: 4**
- MEC 130 - Mechanisms **Credits: 3**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- ELC 131 - Circuit Analysis I **Credits: 4**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

#### Spring I

- ATR 112 - Intro to Automation **Credits: 3**
- ATR 280 - Robotic Fundamentals **Credits: 4**
- MEC 130 - Mechanisms **Credits: 3**

# C40350MP - Mechatronics Engineering Technology - Automation Pathway

## Overview

**Department Title**      **Program Code**  
Mechatronics Engineering   C40350MP  
Tech

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- ATR 112 - Intro to Automation **Credits: 3**
- ELC 131 - Circuit Analysis I **Credits: 4**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**
- ATR 280 - Robotic Fundamentals **Credits: 4**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall I

- ELC 131 - Circuit Analysis I **Credits: 4**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

#### Spring I

- ATR 112 - Intro to Automation **Credits: 3**
- ATR 280 - Robotic Fundamentals **Credits: 4**

# C40420 - Geomatics Technology - Survey Technician Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Geomatics Technology | C40420       |

## Program 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, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

Geomatics Technology: A course of study that prepares students to use mathematical and scientific principles for the delineation, determination, planning and positioning of land tracts, boundaries, contours and features applying principles of route surveying, construction surveying, photogrammetry, mapping, global positioning systems, geographical information systems, and other kinds of property description and measurement to create related maps, charts and reports. Includes instruction in applied geodesy, computer graphics, photointerpretation, plane and geodetic surveying, mensuration, traversing, survey equipment operation and maintenance, instrument calibration, and basic cartography. Graduates should qualify for jobs as survey party chief, instrument person, surveying technician, highway surveyor, mapper, GPS technician, and CAD operator. Graduates will be prepared to pursue the requirements necessary to become a Registered Land Surveyor in North Carolina.

Degree  
Certificate

## Program of Study

## Program Requirements

### Major Requirements

- CEG 111 - Intro to Gis and Gnss **Credits: 4**
- SRV 110 - Surveying **Credits: 4**
- SRV 111 - Surveying II **Credits: 4**
- SRV 260 - Field & Office Practices **Credits: 2**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall I

- SRV 110 - Surveying **Credits: 4**

#### Spring I

- CEG 111 - Intro to Gis and Gnss **Credits: 4**
- SRV 111 - Surveying II **Credits: 4**

#### Summer I

- SRV 260 - Field & Office Practices **Credits: 2**

# C40420CP - Geomatics Technology - Survey Technician Pathway

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Geomatics Technology | C40420CP     |

## Program 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, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

Geomatics Technology: A course of study that prepares students to use mathematical and scientific principles for the delineation, determination, planning and positioning of land tracts, boundaries, contours and features applying principles of route surveying, construction surveying, photogrammetry, mapping, global positioning systems, geographical information systems, and other kinds of property description and measurement to create related maps, charts and reports. Includes instruction in applied geodesy, computer graphics, photointerpretation, plane and geodetic surveying, mensuration, traversing, survey equipment operation and maintenance, instrument calibration, and basic cartography. Graduates should qualify for jobs as survey party chief, instrument person, surveying technician, highway surveyor, mapper, GPS technician, and CAD operator. Graduates will be prepared to pursue the requirements necessary to become a Registered Land Surveyor in North Carolina.

Degree  
Certificate

## Program of Study

## Program Requirements

### Major Requirements

- CEG 111 - Intro to Gis and Gnss **Credits: 4**
- SRV 110 - Surveying **Credits: 4**
- SRV 111 - Surveying II **Credits: 4**
- SRV 260 - Field & Office Practices **Credits: 2**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall I

- SRV 110 - Surveying **Credits: 4**

#### Spring I

- CEG 111 - Intro to Gis and Gnss **Credits: 4**
- SRV 111 - Surveying II **Credits: 4**

#### Summer I

- SRV 260 - Field & Office Practices **Credits: 2**

# C45200CT - Computed Tomography Certificate

## Overview

### Department Title      Program Code

Computed Tomography & MRI Tech      C45200CT

### Program Description

The Computed Tomography and Magnetic Resonance Imaging Technology curriculum prepares the individual to use specialized equipment to visualize cross-sectional anatomical structures and aid physicians in the demonstration of pathologies and disease processes. Individuals entering this curriculum must be registered or registry- eligible radiologic technologist, radiation therapist, or nuclear medicine technologist.

Course work prepares the technologist to provide patient care and perform studies utilizing imaging equipment, professional communication, and quality assurance in scheduled and emergency procedures through academic and clinical studies.

Graduates may be eligible to sit for the American Registry of Radiologic Technologist Advanced-Level testing in Computed Tomography and/or Magnetic Resonance Imaging examinations. They may find employment in facilities which perform these imaging procedures.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CAT 210 - CT Physics & Equipment **Credits: 3**
- CAT 211 - CT Procedures **Credits: 4**
- CAT 231 - CT Clinical Practicum **Credits: 11**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CAT 210 - CT Physics & Equipment **Credits: 3**
- CAT 211 - CT Procedures **Credits: 4**
- CAT 231 - CT Clinical Practicum **Credits: 11**



# C45200MR - Magnetic Resonance Imaging Certificate

## Overview

### Department Title      Program Code

Computed Tomography & MRI Tech      C45200MR

### Program Description

The Computed Tomography and Magnetic Resonance Imaging Technology curriculum prepares the individual to use specialized equipment to visualize cross-sectional anatomical structures and aid physicians in the demonstration of pathologies and disease processes. Individuals entering this curriculum must be registered or registry- eligible radiologic technologist, radiation therapist, or nuclear medicine technologist.

Course work prepares the technologist to provide patient care and perform studies utilizing imaging equipment, professional communication, and quality assurance in scheduled and emergency procedures through academic and clinical studies.

Graduates may be eligible to sit for the American Registry of Radiologic Technologist Advanced-Level testing in Computed Tomography and/or Magnetic Resonance Imaging examinations. They may find employment in facilities which perform these imaging procedures.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- MRI 210 - MRI Physics and Equipment  
**Credits: 3**
- MRI 211 - MRI Procedures **Credits: 4**
- MRI 231 - MRI Clinical Practicum **Credits: 11**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Spring I

- MRI 210 - MRI Physics and Equipment  
**Credits: 3**
- MRI 211 - MRI Procedures **Credits: 4**
- MRI 231 - MRI Clinical Practicum **Credits: 11**

# C45380A - Social and Human Services - Child Advocacy Certificate

## Overview

**Department Title**      **Program Code**  
Social & Human Services      C45380A  
Tech

### Program 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.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Hours

- CAS 110 - Persp Child Maltreatment & Adv  
**Credits: 3**
- CAS 120 - Cultural Aware Child Malt/Adv  
**Credits: 3**

- CAS 220 - Resp Survivor of Child Abuse  
**Credits: 3**
- CAS 210 - Prof & Sys Resp to Child Malt  
**Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- CAS 110 - Perspectives on Child Maltreatment and Advocacy **Credits: 3**
- CAS 120 - Cultural Awareness in Child Maltreatment and Advocacy **Credits: 3**

#### Spring I

- CAS 210 - Professional & Systems Responses to Maltreatment **Credits: 3**
- CAS 220 - Responding to the Survivor of Child Abuse **Credits: 3**

# C45380C - Social and Human Services - Mental Health Certificate

## Overview

**Department Title**      **Program Code**  
Social & Human Services      C45380C  
Tech

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HSE 135 - Orientation Lab I **Credits: 1**
- MHA 140 - Intro to Mental Health **Credits: 3**
- MHA 150 - Mental Health Interventions **Credits: 3**
- MHA 155 - Psychological Assessment **Credits: 3**

- MHA 238 - Psychopathology **Credits: 3**
- MHA 240 - Advocacy **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 - Work-Based Learning Seminar I **Credits: 1**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- HSE 135 – Orientation Lab **Credits: 1**
- MHA 140 – Introduction to Mental Health **Credits: 3**

#### Spring I

- MHA 150 - Mental Health Systems **Credits: 3**
- MHA 240 – Advocacy **Credits: 3**

#### Summer I

- MHA 155 - Psychological Assessment **Credits: 3**
- MHA 238 – Psychopathology **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 – Work-Based Learning Seminar I **Credits: 1**

# C45380CP - Social and Human Services Pathway

## Overview

### Department Title      Program Code

Social & Human Services      C45380CP  
Tech

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HSE 110 - Intro to Human Services **Credits: 3**
- HSE 123 - Interview Tech Human Services **Credits: 3**
- HSE 210 -Diversity Ethics and Trends **Credits: 3**
- HSE 212 - Group Dynamics **Credits: 3**
- HSE 225 - Crisis and Intervention Prin **Credits: 3**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- HSE 110 - Intro to Human Services **Credits: 3**

#### Spring I

- HSE 123 - Interview Tech Human Services **Credits: 3**
- HSE 212 - Group Dynamics **Credits: 3**
- HSE 225 - Crisis and Intervention Prin **Credits: 3**

#### Summer I

- HSE 210 -Diversity Ethics and Trends **Credits: 3**

# C45380E - Social and Human Services - Addiction & Recovery Certificate

## Overview

**Department Title**      **Program Code**  
Social & Human Services      C45380E  
Tech

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HSE 212 – Group Dynamics **Credits: 3**
- SAB 110 – Intro to Addiction and Recovery Studies **Credits: 3**
- SAB 120 - Intake and Assessment **Credits: 3**
- SAB 210 - Addiction and Recovery Counsel **Credits: 3**

- SAB 240- Diversity, Ethics, and Trends Credits: 3
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 – Work-Based Learning Seminar I **Credits: 1**
- WBL 121 - Work-Based Learning II **Credits: 1**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- SAB 110 – Intro to Addiction and Recovery Studies **Credits: 3**
- SAB 240 - Diversity, Ethics, and Trends **Credits: 3**

#### Spring I

- HSE 212 – Group Dynamics **Credits: 3**
- SAB 120 - Intake and Assessment **Credits: 3**
- WBL 111 - Work-Based Learning I **Credits: 1**
- WBL 115 – Work-Based Learning Seminar I **Credits: 1**

#### Summer

- SAB 210 - Addiction and Recovery Counsel **Credits: 3**
- WBL 121 - Work-Based Learning II **Credits: 1**

# C45400CP - Medical Assisting Pathway

## Overview

| Department Title  | Program Code |
|-------------------|--------------|
| Medical Assisting | C45400CP     |

### Program Description

The Medical Assisting curriculum prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, supervised medication administration; and ethical/legal issues associated with patient care.

Graduates of CAAHEP-accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- MED 110 - Orientation to Med Assist **Credits: 1**
- MED 118 - Medical Law and Ethics **Credits: 2**

- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**
- MED 130 - Admin Office Proc I **Credits: 2**
- MED 131 - Admin Office Proc II **Credits: 2**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- MED 130 - Admin Office Proc I **Credits: 2**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 118 - Medical Law and Ethics **Credits: 2**
- MED 110 - Orientation to Med Assist **Credits: 1**

#### Spring I

- MED 122 - Medical Terminology II **Credits: 3**
- MED 131 - Admin Office Proc II **Credits: 2**

# C45630CP - Health and Fitness Science Pathway

## Overview

### Department Title      Program Code

Health & Fitness Science      C45630CP

### Program Description

The Health and Fitness Science program is designed to provide students with the knowledge and skills necessary for employment in the fitness and exercise industry.

Students will be trained in exercise science and be able to administer basic fitness tests and health risk appraisals, teach specific exercise and fitness classes and provide instruction in the proper use of exercise equipment and facilities.

Graduates should qualify for employment opportunities in commercial fitness clubs, YMCA's/ YWCA's, wellness programs in business and industry, Parks & Recreation Departments and other organizations implementing exercise & fitness programs.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HFS 110 - Exercise Science **Credits: 4**
- HFS 111 - Fitness & Exer Testing I **Credits: 4**
- HFS 120 - Group Exer Instruction **Credits: 3**
- HFS 212 - Exercise Programming **Credits: 3**

#### Other Major Requirements

- PED 110 - Fit and Well for Life **Credits: 2**
- PED 119 - Circuit Training **Credits: 1**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- HFS 110 - Exercise Science **Credits: 4**
- HFS 111 - Fitness & Exer Testing I **Credits: 4**
- PED 110 - Fit and Well for Life **Credits: 2**

#### Spring I

- HFS 120 - Group Exer Instruction **Credits: 3**
- HFS 212 - Exercise Programming **Credits: 3**
- PED 119 - Circuit Training **Credits: 1**



# C50210 - Computer-Integrated Machining Certificate

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Computer-Integrated Machining | C50210       |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements (DAY AND EVENINGS)

#### Major Requirements

- MAC 111 - Machining Technology I **Credits: 6**
- MAC 112 - Machining Technology II **Credits: 6**
- MAC 121 - Intro to CNC **Credits: 2**

- MAC 122 - CNC Turning **Credits: 2**
- MAC 124 - CNC Milling **Credits: 2**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- MAC 111 - Machining Technology I **Credits: 6**
- MAC 121 - Intro to CNC **Credits: 2**

#### Spring I

- MAC 112 - Machining Technology II **Credits: 6**
- MAC 124 - CNC Milling **Credits: 2**

#### Summer I

- MAC 122 - CNC Turning **Credits: 2**

# C50210CP - Computer-Integrated Machining Pathway

## Overview

| Department Title                 | Program Code |
|----------------------------------|--------------|
| Computer-Integrated<br>Machining | C50210CP     |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- MAC 111 - Machining Technology I **Credits: 6**
- MAC 112 - Machining Technology II **Credits: 6**

**Total Credits: 12**  
**Semester Sequence**

### Semester Sequence

#### Fall Semester I

- MAC 111 - Machining Technology I **Credits: 6**

#### Spring Semester I

- MAC 112 - Machining Technology II **Credits: 6**

# C50420 - Welding Technology - SMAW/GTAW Certificate

## Overview

### Department Title      Program Code

Welding Technology      C50420

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 115 - SMAW (Stick) Plate **Credits: 5**
- WLD 116 - SMAW (stick) Plate/Pipe **Credits: 4**
- WLD 131 - GTAW (TIG) Plate **Credits: 4**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 115 - SMAW (Stick) Plate **Credits: 5**
- WLD 131 - GTAW (TIG) Plate **Credits: 4**

#### Spring I

- WLD 116 - SMAW (stick) Plate/Pipe **Credits: 4**

# C50420C - Welding Technology Certificate

## Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Welding Technology | C50420C      |

### Program 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.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 115 - SMAW (Stick) Plate **Credits: 5**
- WLD 116 - SMAW (stick) Plate/Pipe **Credits: 4**
- WLD 121 - GMAW (MIG) FCAW/Plate **Credits: 4**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 115 - SMAW (Stick) Plate **Credits: 5**

#### Spring I

- WLD 116 - SMAW (stick) Plate/Pipe **Credits: 4**
- WLD 121 - GMAW (MIG) FCAW/Plate **Credits: 4**

# C50420CP - Welding Technology Pathway

## Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Welding Technology | C50420CP     |

## Program 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.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 115 - SMAW (Stick) Plate **Credits: 5**
- WLD 121 - GMAW (MIG) FCAW/Plate **Credits: 4**
- WLD 116 - SMAW (stick) Plate/Pipe **Credits: 4**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 115 - SMAW (Stick) Plate **Credits: 5**

#### Spring I

- WLD 116 - SMAW (stick) Plate/Pipe **Credits: 4**
- WLD 121 - GMAW (MIG) FCAW/Plate **Credits: 4**

# C50420F - Welding Technology - GTAW/GMAW Certificate

## Overview

### Department Title      Program Code

Welding Technology      C50420F

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 121 - GMAW (MIG) FCAW/Plate **Credits: 4**
- WLD 131 - GTAW (TIG) Plate **Credits: 4**
- WLD 132 - GTAW (TIG) Plate/Pipe **Credits: 3**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 131 - GTAW (TIG) Plate **Credits: 4**

#### Spring I

- WLD 132 - GTAW (TIG) Plate/Pipe **Credits: 3**
- WLD 121 - GMAW (MIG) FCAW/Plate **Credits: 4**

# C50460 - Nuclear Technology Certificate

## Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Nuclear Technology | C50460       |

### Program Description

The Nuclear Technology curriculum prepares individuals to become qualified reactor field service technicians who conduct inspections and implement repairs and modifications to licensed nuclear facilities which have light water reactors that are shut down for refueling.

Course work includes theory and application related to industrial and engineering technology disciplines including nuclear reactor theory, boiling water reactor systems, quality control, industrial and nuclear safety, instrumentation, electrical generation, automation and robotics, welding, and various metallurgical inspection procedures. Upon completion, graduates should qualify as entry-level nuclear reactor service technicians and have academic preparations to advance into other industrial or engineering technician positions within the commercial nuclear power industry.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CIS 110 - Introduction to Computers  
Credits: 3
- HYD 110 - Hydraulics/Pneumatics I Credits:  
3
- NUC 110 - Nuclear Reactor Systems  
Credits: 3
- WLD 112 - Basic Welding Processes Credits:  
2

- WLD 143 - Welding Metallurgy Credits: 2

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers Credits:  
3
- NUC 110 - Nuclear Reactor Systems Credits:  
3

#### Spring I

- HYD 110 - Hydraulics/Pneumatics I Credits: 3

#### Summer

- WLD 112 - Basic Welding Processes Credits: 2
- WLD 143 - Welding Metallurgy Credits: 2



# C50460CP - Nuclear Technology Pathway

## Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Nuclear Technology | C50460CP     |

### Program Description

The Nuclear Technology curriculum prepares individuals to become qualified reactor field technicians who are employed by licensed nuclear reactor facilities.

Course work includes theory and application related to industrial and engineering technology disciplines including nuclear reactor theory, reactor systems, industrial and nuclear safety, instrumentation, electrical generation, automation and robotics, and may include quality control, welding, and various metallurgical inspection procedures.

Upon completion, graduates should qualify as entry-level nuclear reactor technicians and have academic preparations to advance into other industrial or engineering technician positions within the commercial nuclear power industry.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CIS 110 - Introduction to Computers **Credits: 3**
- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**
- NUC 110 - Nuclear Reactor Systems **Credits: 3**
- WLD 112 - Basic Welding Processes **Credits: 2**
- WLD 143 - Welding Metallurgy **Credits: 2**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 110 - Introduction to Computers **Credits: 3**
- NUC 110 - Nuclear Reactor Systems **Credits: 3**

#### Spring I

- HYD 110 - Hydraulics/Pneumatics I **Credits: 3**

#### Summer I

- WLD 112 - Basic Welding Processes **Credits: 2**
- WLD 143 - Welding Metallurgy **Credits: 2**

# C55120 - Basic Law Enforcement Training Certificate

## Overview

| Department Title               | Program Code |
|--------------------------------|--------------|
| Basic Law Enforcement Training | C55120       |

## Program 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 which include the certification examination 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- LET 110 - Basic Law Enforcement BLET  
Credits: 37

**Total Credits: 37**

## Semester Sequence

### Semester Sequence

#### Additional Program Information

Prerequisite: Approval of the BLET Director. Copy of reading placement test results taken less than one year prior to the class starting date; the NC Criminal Justice Education and Training Standards Commission requires all registrants to take a nationally standardized reading test prior to being admitted to a BLET course. Scores indicating being proficient in reading will meet reading test requirements. A certified copy of the High School, GED, or Adult High School transcript is required. Some diplomas earned through correspondence enrollment are not recognized toward the educational requirements; this is reviewed by North Carolina Training and Standards on a case by case basis.

The following items are also required for admission to the BLET program:

- Must be at least 20 years of age
- Must have a valid North Carolina driver's license
- Must submit a Medical Examination Form completed by a North Carolina licensed physician
- Must provide a Certified Criminal History Check report
- Must be a citizen of the United States
- A sponsorship letter is recommended

This course is designed to provide the student with basic skills and basic knowledge necessary to perform those tasks essential to function in law enforcement. The course consists of 868 hours of instruction in the following topic areas:

- Course Orientation 8
- Ethical Problem Solving 16
- Officer Health and Wellness 54
- Communication & De Escalation Skills 24

- First Responder 24
- Field Notes and Report Writing 16
- Arrest, Search, Seizure & Constitutional Law 24
- Crisis Intervention: Interacting w/Special Needs Populations 24
- Interviews and Interrogations 24
- Compliance and Control Tactics 64
- Firearms 96
- Law Enforcement Driver Training 48
- Criminal Investigations 40
- Responding to Crime Victims 8
- Person Crimes 16
- Property Crimes 16
- Crimes Against the Public 16
- Juvenile Laws and Procedures 12
- Domestic Violence 16
- Sexual Assaults 16
- Human Trafficking 4
- Hate Crimes 8
- Controlled Substances 16
- Missing Persons 4
- Deceased Persons 4
- Testifying in Court 16
- Motor Vehicle Laws 20
- Traffic Law Enforcement 24
- Traffic Crash Investigations 24
- Standardized Field Sobriety Testing 28
- Crime Prevention 4
- Transporting and Processing Arrestees 8
- Civil Process 24
- Courtroom Security 8
- Explosives and HazMat Emergencies 16

- Homeland Security 8
- Rapid Deployment to Active Attacker 16
- Crowd Management 16
- Patrol Techniques 28
- Testing 30

**TOTAL 868**

**Total Credits: 37**

# C55130 - Baking and Pastry Arts Certificate

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Baking and Pastry Arts | C55130       |

## Program Description

The Baking and Pastry Arts curriculum is designed to provide students with the skills and knowledge required for employment in the baking/pastry industry, including restaurants, hotels, independent bakeries/pastry shops, wholesale/retail markets, and high-volume bakeries, and/or further academic studies.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Course work includes specialty/artisanal breads, desserts/pastries, decorative work, high-volume production and food marketing.

Graduates should qualify for entry-level positions, such as pastry/bakery assistant, area pastry chef and assistant pastry chef. American Culinary Federation certification may be available to graduates.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BPA 150 - Artisan & Specialty Bread **Credits: 4**
- BPA 165 - Hot and Cold Desserts **Credits: 3**
- BPA 210 - Cake Design & Decorating **Credits: 3**
- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 160 - Baking I **Credits: 3**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 160 - Baking I **Credits: 3**

#### Spring I

- BPA 150 - Artisan & Specialty Bread **Credits: 4**
- BPA 165 - Hot and Cold Desserts **Credits: 3**
- BPA 210 - Cake Design & Decorating **Credits: 3**

# C55130CP - Baking and Pastry Arts Pathway

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Baking and Pastry Arts | C55130CP     |

### Program Description

The Baking and Pastry Arts curriculum is designed to provide students with the skills and knowledge required for employment in the baking/pastry industry, including restaurants, hotels, independent bakeries/pastry shops, wholesale/retail markets, and high-volume bakeries, and/or further academic studies.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Course work includes specialty/artisanal breads, desserts/pastries, decorative work, high-volume production and food marketing.

Graduates should qualify for entry-level positions, such as pastry/bakery assistant, area pastry chef and assistant pastry chef. American Culinary Federation certification may be available to graduates.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- BPA 150 - Artisan & Specialty Bread **Credits: 4**
- BPA 165 - Hot and Cold Desserts **Credits: 3**
- BPA 210 - Cake Design & Decorating **Credits: 3**
- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 160 - Baking I **Credits: 3**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 160 - Baking I **Credits: 3**

#### Spring I

- BPA 150 - Artisan & Specialty Bread **Credits: 4**
- BPA 165 - Hot and Cold Desserts **Credits: 3**
- BPA 210 - Cake Design & Decorating **Credits: 3**

# C55140 - Cosmetology Certificate

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Cosmetology      | C55140       |

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- COS 111 - Cosmetology Concepts I **Credits: 4**
- COS 112 - Salon I **Credits: 8**
- COS 113 - Cosmetology Concepts II **Credits: 4**
- COS 114 - Salon II **Credits: 8**
- COS 115 - Cosmetology Concepts III **Credits: 4**
- COS 116 - Salon III **Credits: 4**

### Other Major Requirements

**Electives** (Take 2 credits)

- COS 223 - Contemp Hair Coloring **Credits: 2**
- COS 224 - Trichology & Chemistry **Credits: 2**
- COS 240 - Contemporary Design **Credits: 2**
- COS 260 - Design Applications **Credits: 2**

**Total Credits: 34**

## Semester Sequence

### Semester Sequence

#### Fall I

- COS 111 - Cosmetology Concepts I **Credits: 4**
- COS 112 - Salon I **Credits: 8**

#### Spring I

- COS 113 - Cosmetology Concepts II **Credits: 4**
- COS 114 - Salon II **Credits: 8**
- Cosmetology Elective **Credits: 2**

#### Summer I

- COS 115 - Cosmetology Concepts III **Credits: 4**
- COS 116 - Salon III **Credits: 4**

# C55140CP - Cosmetology Pathway

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Cosmetology      | C55140CP     |

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- COS 111 - Cosmetology Concepts I **Credits: 4**
- COS 112 - Salon I **Credits: 8**
- COS 113 - Cosmetology Concepts II **Credits: 4**
- COS 114 - Salon II **Credits: 8**
- COS 115 - Cosmetology Concepts III **Credits: 4**
- COS 116 - Salon III **Credits: 4**

### Other Major Requirements

- COS 260 - Design Applications **Credits: 2**

**Total credits: 34**

## Semester Sequence

### Semester Sequence

#### Fall I

- COS 111 - Cosmetology Concepts I **Credits: 4**
- COS 112 - Salon I **Credits: 8**

#### Spring I

- COS 113 - Cosmetology Concepts II **Credits: 4**
- COS 114 - Salon II **Credits: 8**
- COS 260 - Design Applications **Credits: 2**

#### Summer

- COS 115 - Cosmetology Concepts III **Credits: 4**
- COS 116 - Salon III **Credits: 4**



# C55150 - Culinary Arts Certificate

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Culinary Arts    | C55150       |

### Program Description

The Culinary Arts curriculum provides specific training required to prepare students to assume positions as trained culinary professionals in a variety of foodservice settings including full service restaurants, hotels, resorts, clubs, catering operations, contract foodservice and health care facilities.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Courses include sanitation/safety, baking, garde manger, culinary fundamentals/production skills, nutrition, customer service, purchasing/cost control, and human resource management.

Graduates should qualify for entry-level opportunities including prep cook, line cook, and station chef. American Culinary Federation certification may be available to graduates. With experience, graduates may advance to positions including sous chef, pastry chef, executive chef, or foodservice manager.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 130 - Menu Design **Credits: 2**
- CUL 140 - Culinary Skills I **Credits: 5**

- CUL 160 - Baking I **Credits: 3**
- CUL 240 - Culinary Skills II **Credits: 5**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 140 - Culinary Skills I **Credits: 5**
- CUL 160 - Baking I **Credits: 3**

#### Spring I

- CUL 130 - Menu Design **Credits: 2**
- CUL 240 - Culinary Skills II **Credits: 5**

# C55150CP - Culinary Arts Pathway

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Culinary Arts    | C55150CP     |

### Program Description

The Culinary Arts curriculum provides specific training required to prepare students to assume positions as trained culinary professionals in a variety of foodservice settings including full service restaurants, hotels, resorts, clubs, catering operations, contract foodservice and health care facilities.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Courses include sanitation/safety, baking, garde manger, culinary fundamentals/production skills, nutrition, customer service, purchasing/cost control, and human resource management.

Graduates should qualify for entry-level opportunities including prep cook, line cook, and station chef. American Culinary Federation certification may be available to graduates. With experience, graduates may advance to positions including sous chef, pastry chef, executive chef, or foodservice manager.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 130 - Menu Design **Credits: 2**
- CUL 140 - Culinary Skills I **Credits: 5**

- CUL 160 - Baking I **Credits: 3**
- CUL 240 - Culinary Skills II **Credits: 5**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 140 - Culinary Skills I **Credits: 5**
- CUL 160 - Baking I **Credits: 3**

#### Spring I

- CUL 130 - Menu Design **Credits: 2**
- CUL 240 - Culinary Skills II **Credits: 5**

# C55160 - Cosmetology Instructor Certificate

## Overview

### Department Title      Program Code

Cosmetology Instructor      C55160

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- COS 271 - Instructor Concepts I **Credits: 5**
- COS 272 - Instructor Practicum I **Credits: 7**
- COS 273 - Instructor Concepts II **Credits: 5**
- COS 274 - Instructor Practicum II **Credits: 7**

**Total Credits: 24**

## Semester Sequence

### Semester Sequence

#### Fall I

- COS 271 - Instructor Concepts I **Credits: 5**

- COS 272 - Instructor Practicum I **Credits: 7**

#### Spring I

- COS 273 - Instructor Concepts II **Credits: 5**
- COS 274 - Instructor Practicum II **Credits: 7**

# C55180 - Criminal Justice Technology Certificate

## Overview

### Department Title      Program Code

Criminal Justice      C55180  
Technology

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 121 - Law Enforcement Operations **Credits: 3**
- CJC 141 - Corrections **Credits: 3**
- CJC 221 - Investigative Principles **Credits: 4**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 121 - Law Enforcement Operations **Credits: 3**

#### Spring I

- CJC 141 - Corrections **Credits: 3**
- CJC 221 - Investigative Principles **Credits: 4**

# C55180CP - Criminal Justice Technology Pathway

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Criminal Justice Technology | C55180CP     |

## Program 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.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 112 - Criminology **Credits: 3**
- CJC 113 - Juvenile Justice **Credits: 3**
- CJC 221 - Investigative Principles **Credits: 4**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 112 - Criminology **Credits: 3**

#### Spring I

- CJC 113 - Juvenile Justice **Credits: 3**
- CJC 221 - Investigative Principles **Credits: 4**

# C55180L - Criminal Justice Technology - Leadership Certificate

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Criminal Justice Technology | C55180L      |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

**Communications** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Humanities/Fine Arts Elective** (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**

### Major Requirements (12 credits)

- BUS 253 - Leadership and Mgt Skills **Credits: 3**
- CJC 212 - Ethics & Comm Relations **Credits: 3**
- CJC 225 - Crisis Intervention **Credits: 3**
- CJC 240 - Law Enfor Mgt. & Supervis **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- BUS 253 - Leadership and Mgt Skills **Credits: 3**
- CJC 225 - Crisis Intervention **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**

#### Spring I

- CJC 212 - Ethics & Comm Relations **Credits: 3**
- CJC 240 - Law Enfor Mgt. & Supervis **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

# C55180S - Criminal Justice Technology - Industrial Security Certificate

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Criminal Justice Technology | C55180S      |

## Program 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.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 214 - Victimology **Credits: 3**
- CJC 221 - Investigative Principles **Credits: 4**
- CJC 225 - Crisis Intervention **Credits: 3**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- CJC 111 - Intro to Criminal Justice **Credits: 3**
- CJC 225 - Crisis Intervention **Credits: 3**

#### Spring I

- CJC 214 - Victimology **Credits: 3**
- CJC 221 - Investigative Principles **Credits: 4**



# C55190 - High School Adjunct Instructor Certificate

## Overview

### Department Title      Program Code

Early Childhood Associate   C55190

### Program Description

The High School Adjunct Instructor certificate provides a course of study leading to the development of the general pedagogy and competencies needed to become an adjunct instructor in a public high school in North Carolina.

Course work includes classroom management and pedagogy, effective instructional methods, foundations of education, educational technology, and other related topics.

Graduates of this program should be prepared to teach in a high school setting and provide instruction in core academic subjects, fine and performing arts, or foreign language in the individual's area of specialized knowledge or work experience.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EDU 163 - Classroom Mgmt and Instruction **Credits: 3**
- EDU 177 - Instructional Methods **Credits: 3**
- EDU 216 - Foundations of Education **Credits: 3**
- EDU 243 - Learning Theory **Credits: 3**
- EDU 270 - Effective Instructional Enviro **Credits: 2**

### Other Major Hours

**Electives** (Take 3 credits)

- EDU 271 - Educational Technology **Credits: 3**
- EDU 272 - Technology, Data, and Assess **Credits: 3**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- EDU 163 - Classroom Mgmt and Instruction **Credits: 3**
- EDU 177 - Instructional Methods **Credits: 3**
- EDU 216 - Foundations of Education **Credits: 3**

#### Spring I

- EDU 243 - Learning Theory **Credits: 3**
- EDU 270 - Effective Instructional Enviro **Credits: 2**
- EDU 271 - Educational Technology **Credits: 3**

# C55210 - Cyber Crime Technology Certificate

## Overview

### Department Title      Program Code

Cyber Crime Technology      C55210

### Program Description

The Cyber Crime Technology curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals.

Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes.

Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also these graduates should be competent to serve as computer security specialists or consultants with private business.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CCT 112 - Ethics & High Technology **Credits: 3**
- CCT 121 - Computer Crime Invest. **Credits: 4**
- CCT 231 - Technology Crimes & Law **Credits: 3**

**Total credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CCT 112 - Ethics & High Technology **Credits: 3**

#### Spring I

- CCT 121 - Computer Crime Invest. **Credits: 4**
- CCT 231 - Technology Crimes & Law **Credits: 3**

# C55210A - Cyber Crime Technology - Ethical Hacker Certificate

## Overview

**Department Title**      **Program Code**  
Cyber Crime Technology      C55210A

### Program Description

The Cyber Crime Technology curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals.

Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes.

Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also these graduates should be competent to serve as computer security specialists or consultants with private business.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Hours

- CCT 112 - Ethics & High Technology **Credits: 3**

#### Other Major Hours

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- CCT 251 - Network Vulnerabilities II **Credits: 3**
- CET 130 - Operating System Prin **Credits: 3**

- NET 110 - Networking Concepts **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CCT 112 - Ethics & High Technology **Credits: 3**
- CET 130 - Operating System Prin **Credits: 3**
- NET 110 - Networking Concepts **Credits: 3**

#### Spring I

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- CCT 251 - Network Vulnerabilities II **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

# C55210CP - Cyber Crime Technology Pathway

## Overview

### Department Title      Program Code

Cyber Crime Technology      C55210CP

### Program Description

The Cyber Crime Technology curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals.

Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes.

Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also these graduates should be competent to serve as computer security specialists or consultants with private business.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CCT 112 - Ethics & High Technology **Credits: 3**
- CCT 121 - Computer Crime Invest. **Credits: 4**
- CCT 231 - Technology Crimes & Law **Credits: 3**

**Total Credits: 13**

## Semester Sequence

### Semester Sequence

#### Fall I

- CCT 110 - Intro to Cyber Crime **Credits: 3**
- CCT 112 - Ethics & High Technology **Credits: 3**

#### Spring I

- CCT 121 - Computer Crime Invest. **Credits: 4**
- CCT 231 - Technology Crimes & Law **Credits: 3**

# C55210N - Cyber Crime Technology - Cyber Security and Networking Certificate

## Overview

**Department Title**      **Program Code**  
Cyber Crime Technology      C55210N

### Program Description

The Cyber Crime Technology curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals.

Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes.

Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also these graduates should be competent to serve as computer security specialists or consultants with private business.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- CET 130 - Operating System Prin **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

- SEC 160 - Security Administration I **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- CET 130 - Operating System Prin **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

#### Spring I

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**
- SEC 160 - Security Administration I **Credits: 3**

# C55220 - Early Childhood Education - Administration Certificate

## Overview

**Department Title**     **Program Code**  
Early Childhood Associate   C55220

### Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**

- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**
- EDU 261 - Early Childhood Admin I **Credits: 3**
- EDU 262 - Early Childhood Admin II **Credits: 3**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**
- EDU 261 - Early Childhood Admin I **Credits: 3**
- EDU 262 - Early Childhood Admin II **Credits: 3**

#### Spring I

- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**

# C55220IP - Early Childhood Education - Infant/Toddler Care Pathway

## Overview

### Department Title      Program Code

Early Childhood Associate    C55220IP

### Program 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.

Early Childhood Education: A program that prepares individuals to promote child development and learning, work with diverse families and children, observe, document and assess to support young children and families, use content knowledge to build meaningful curriculum, and use developmentally effective approaches in collaboration with other early childhood professionals. Potential course work includes instruction in all areas of child development such as emotional/social/health/physical/language/communication, approaches to play and learning, working with diverse families, and related observations/student teaching experiences.

## Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**
- EDU 144 - Child Development I **Credits: 3**
- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**
- EDU 234 - Infants, Toddlers, and Twos **Credits: 3**
- EDU 234A- Infants, Toddlers, and Twos Lab  
**Credits: 1**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**
- EDU 144 - Child Development I **Credits: 3**

#### Spring I

- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**
- EDU 234 - Infants, Toddlers, and Twos **Credits: 3**
- EDU 234A- Infants, Toddlers, and Twos Lab  
**Credits: 1**



# C55220IT - Early Childhood Education - Infant/Toddler Care Certificate

## Overview

**Department Title**     **Program Code**  
Early Childhood Associate   C55220IT

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**
- EDU 144 - Child Development I **Credits: 3**

- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**
- EDU 234 - Infants, Toddlers, and Twos **Credits: 3**
- EDU 234A - Infants, Toddlers, and Twos Lab  
**Credits: 1**

**Total Credits: 17**

## Semester Sequence

### Semester Sequence

#### Fall I

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**
- EDU 144 - Child Development I **Credits: 3**

#### Spring I

- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**
- EDU 234 - Infants, Toddlers, and Twos **Credits: 3**
- EDU 234A - Infants, Toddlers, and Twos Lab  
**Credits: 1**

# C55220PE - Early Childhood Education - Preschool Certificate

## Overview

### Department Title      Program Code

Early Childhood Associate   C55220PE

### Program 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.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**
- EDU 145 - Child Development II **Credits: 3**

- EDU 146 - Child Guidance **Credits: 3**
- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**

#### Spring I

- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**

# C55220PP - Early Childhood Education - Preschool Pathway

## Overview

### Department Title    Program Code

Early Childhood Associate   C55220PP

### Program 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.

Early Childhood Education: A program that prepares individuals to promote child development and learning, work with diverse families and children, observe, document and assess to support young children and families, use content knowledge to build meaningful curriculum, and use developmentally effective approaches in collaboration with other early childhood professionals. Potential course work includes instruction in all areas of child development such as emotional/social/health/physical/language/communication, approaches to play and learning, working with diverse families, and related observations/student teaching experiences.

Degree  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**
- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- EDU 119 - Intro to Early Child Education  
**Credits: 4**
- EDU 131 - Child, Family, and Community  
**Credits: 3**

#### Spring I

- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 153 - Health, Safety and Nutrition  
**Credits: 3**

# C55230 - Esthetics Technology Certificate

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Esthetics Technology | C55230       |

## Program 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.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- COS 119 - Esthetics Concepts I **Credits: 2**
- COS 120 - Esthetics Salon I **Credits: 6**
- COS 125 - Esthetics Concepts II **Credits: 2**
- COS 126 - Esthetics Salon II **Credits: 6**

**Total Credits: 16**

## Semester Sequence

### Semester Sequence

#### Fall I

- COS 119 - Esthetics Concepts I **Credits: 2**
- COS 120 - Esthetics Salon I **Credits: 6**

#### Spring I

- COS 125 - Esthetics Concepts II **Credits: 2**
- COS 126 - Esthetics Salon II **Credits: 6**

# C55240CP - Fire Protection Technology Pathway

## Overview

### Department Title      Program Code

Fire Protection Technology C55240CP

### Program Description

The Fire Protection Technology curriculum is designed to provide students with knowledge and skills in the technical, managerial, and leadership areas necessary for advancement within the fire protection community and related firefighting industries, and to provide currently employed firefighters with knowledge and skills often required for promotional consideration.

Course work includes diverse fire protection subject areas, including fire prevention and safety, public education, building construction, fire ground strategies and tactics, and local government finance and laws, as they apply to emergency services management.

Emphasis includes understanding fire characteristics and the structural consequences of fire; risk assessment and management; and relevant research, communications, and leadership methodologies.

Employment opportunities exist with fire departments, governmental agencies, industrial firms, insurance rating organizations, and educational organizations.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- FIP 120 - Intro to Fire Protection **Credits: 3**
- FIP 124 - Fire Prevention & Public Ed **Credits: 3**
- FIP 132 - Building Construction **Credits: 3**

- FIP 162 - Firefighter Safety & Wellness **Credits: 3**
- FIP 220 - Fire Fighting Strategies **Credits: 3**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- FIP 120 - Intro to Fire Protection **Credits: 3**
- FIP 124 - Fire Prevention & Public Ed **Credits: 3**
- FIP 132 - Building Construction **Credits: 3**

#### Spring I

- FIP 162 - Firefighter Safety & Wellness **Credits: 3**
- FIP 220 - Fire Fighting Strategies **Credits: 3**

# C55370 - Community Spanish Interpreter Certificate

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Community Spanish Interpreter | C55370       |

## Program Description

The Community Spanish Interpreter curriculum prepares individuals to work as entry-level bilingual professionals who will provide communication access in interview and interactive settings. In addition, this curriculum provides educational training for working professionals who want to acquire Spanish language skills.

Course work includes the acquisition of Spanish: grammar, structure, and sociolinguistic properties, cognitive processes associated with interpretation between Spanish and English; the structure and character of the Hispanic community; and acquisition of communication skills.

Graduates should qualify for entry-level jobs as para-professional bilingual employees in educational systems or a variety of community settings. Individuals may choose from part-time, full-time, or self-employment/free-lance positions, or apply language skills to other human service related areas.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 120 - Spanish for the Workplace **Credits: 3**

- SPA 181 - Spanish Lab 1 **Credits: 1**
- SPA 182 - Spanish Lab 2 **Credits: 1**
- SPI 113 - Intro. to Spanish Inter. **Credits: 3**
- SPI 243 - Medical Interpreting I **Credits: 3**

### Total Credits: 17

In order to be successful in your completion of this Certificate your Spanish language skills should be that of a Heritage or Native speaker. Look below to see the definitions of learners as it applies to this interpreting program.

**Language Learner:** A person who is learning a new language. They may have some experience with the language or none at all. They need to develop skills in listening, speaking, reading, and writing, in addition to understanding the cultural context of the language. In order to be successful at this, the student needs to be motivated to learn the language and be willing to invest the necessary practice time to develop those language skills. Immersion in the language is key.

**Heritage Speaker:** A person who has learned a language by being exposed to it and not by studying it in a formal school setting. They may have been born in a Spanish Speaking country and moved to the US as a child or they may have been born in the US and acquired the language as they grew up. They may have even been used as interpreters by family and friends since they went to school in the US and learned English (speaking, writing, reading) which enabled them to acquire English as their dominant language. They may speak very regionally, which means that they acquired the Spanish commonly used by their family and friends, but they can learn regionalisms from other countries fairly quickly since they already speak Spanish.

**Native Speaker:** A person who was born and raised in a Spanish country so they acquired Spanish as their first language. They've had the opportunity to go through the school system of that country which enabled them to learn to speak, read, and write grammatically correct. They have also been exposed to the Spanish culture of that country. They can communicate fluently and spontaneously."

## Semester Sequence

### Semester Sequence

#### Fall I

- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 181 - Spanish Lab 1 **Credits: 1**
- SPI 113 - Intro. to Spanish Inter. **Credits: 3**

#### Spring I

- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 182 - Spanish Lab 2 **Credits: 1**
- SPI 243 - Medical Interpreting I **Credits: 3**

#### Summer I

- SPA 120 - Spanish for the Workplace **Credits: 3**

## C55370CP - Community Spanish Interpreter Pathway

### Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Community Spanish Interpreter | C55370CP     |

### Program Description

The Community Spanish Interpreter curriculum prepares individuals to work as entry-level bilingual professionals who will provide communication access in interview and interactive settings. In addition, this curriculum provides educational training for working professionals who want to acquire Spanish language skills.

Course work includes the acquisition of Spanish: grammar, structure, and sociolinguistic properties, cognitive processes associated with interpretation between Spanish and English; the structure and character of the Hispanic community; and acquisition of communication skills.

Graduates should qualify for entry-level jobs as para-professional bilingual employees in educational systems or a variety of community settings. Individuals may choose from part-time, full-time, or self-employment/free-lance positions, or apply language skills to other human service related areas.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 120 - Spanish for the Workplace **Credits: 3**



- SPA 181 - Spanish Lab 1 **Credits: 1**
- SPA 182 - Spanish Lab 2 **Credits: 1**
- SPI 113 - Intro. to Spanish Inter. **Credits: 3**
- SPI 243 - Medical Interpreting I **Credits: 3**

## **Total Credits: 17**

---

In order to be successful in your completion of this Certificate your Spanish language skills should be that of a Heritage or Native speaker. Look below to see the definitions of learners as it applies to this interpreting program.

**Language Learner:** A person who is learning a new language. They may have some experience with the language or none at all. They need to develop skills in listening, speaking, reading, and writing, in addition to understanding the cultural context of the language. In order to be successful at this, the student needs to be motivated to learn the language and be willing to invest the necessary practice time to develop those language skills. Immersion in the language is key.

**Heritage Speaker:** A person who has learned a language by being exposed to it and not by studying it in a formal school setting. They may have been born in a Spanish Speaking country and moved to the US as a child or they may have been born in the US and acquired the language as they grew up. They may have even been used as interpreters by family and friends since they went to school in the US and learned English (speaking, writing, reading) which enabled them to acquire English as their dominant language. They may speak very regionally, which means that they acquired the Spanish commonly used by their family and friends, but they can learn regionalisms from other countries fairly quickly since they already speak Spanish.

**Native Speaker:** A person who was born and raised in a Spanish country so they acquired Spanish as their first language. They've had the opportunity to go through the school system of that country which enabled them to learn to speak, read, and write grammatically correct. They have also been exposed to the Spanish culture of that country. They can communicate fluently and spontaneously."

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- SPA 111 - Elementary Spanish I **Credits: 3**
- SPA 181 - Spanish Lab 1 **Credits: 1**
- SPI 113 - Intro. to Spanish Inter. **Credits: 3**

#### **Spring I**

- SPA 112 - Elementary Spanish II **Credits: 3**
- SPA 182 - Spanish Lab 2 **Credits: 1**
- SPI 243 - Medical Interpreting I **Credits: 3**

#### **Summer I**

- SPA 120 - Spanish for the Workplace **Credits: 3**

# C55460 - Emergency Management Certificate

## Overview

### Department Title      Program Code

Emergency Management      C55460

### Program Description

The Emergency Management curriculum is designed to provide students with a foundation of technical and professional knowledge needed for emergency services delivery in local and state government agencies. Study involves both management and technical aspects of law enforcement, fire protection, emergency medical services, and emergency planning.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of emergency preparedness, protection, and enforcement. Students will learn technical and administrative skills such as investigative principles, hazardous materials, codes, standards, emergency agency operations, and finance.

Employment opportunities include ambulance services, fire/rescue agencies, law enforcement agencies, fire marshal offices, industrial firms, educational institutions, emergency management offices, and other government agencies. Employed persons should have opportunities for skilled and supervisory-level positions.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EPT 130 - Mitigation & Preparedness **Credits: 3**
- EPT 140 - Emergency Management **Credits: 3**

- EPT 150 - Incident Management **Credits: 3**
- EPT 210 - Response & Recovery **Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- EPT 130 - Mitigation & Preparedness **Credits: 3**
- EPT 140 - Emergency Management **Credits: 3**

#### Spring I

- EPT 150 - Incident Management **Credits: 3**
- EPT 210 - Response & Recovery **Credits: 3**

# C55460A - Emergency Management - Administration Certificate

## Overview

**Department Title**      **Program Code**  
Emergency Management      C55460A

### Program Description

The Emergency Management curriculum is designed to provide students with a foundation of technical and professional knowledge needed for emergency services delivery in local and state government agencies. Study involves both management and technical aspects of law enforcement, fire protection, emergency medical services, and emergency planning.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of emergency preparedness, protection, and enforcement. Students will learn technical and administrative skills such as investigative principles, hazardous materials, codes, standards, emergency agency operations, and finance.

Employment opportunities include ambulance services, fire/rescue agencies, law enforcement agencies, fire marshal offices, industrial firms, educational institutions, emergency management offices, and other government agencies. Employed persons should have opportunities for skilled and supervisory-level positions.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EPT 120 - Sociology of Disaster **Credits: 3**
- EPT 124 - EM Services Law & Ethics **Credits: 3**

- EPT 220 - Terrorism and Emer. Mgt. **Credits: 3**
- EPT 275 - Emergency Ops Center Mgt **Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- EPT 120 - Sociology of Disaster **Credits: 3**
- EPT 220 - Terrorism and Emer. Mgt. **Credits: 3**

#### Spring I

- EPT 124 - EM Services Law & Ethics **Credits: 3**
- EPT 275 - Emergency Ops Center Mgt **Credits: 3**

# C55460CP - Emergency Management Pathway

## Overview

**Department Title**      **Program Code**  
Emergency Management    C55460CP

### Program Description

The Emergency Management curriculum is designed to provide students with a foundation of technical and professional knowledge needed for emergency services delivery in local and state government agencies. Study involves both management and technical aspects of law enforcement, fire protection, emergency medical services, and emergency planning.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of emergency preparedness, protection, and enforcement. Students will learn technical and administrative skills such as investigative principles, hazardous materials, codes, standards, emergency agency operations, and finance.

Employment opportunities include ambulance services, fire/rescue agencies, law enforcement agencies, fire marshal offices, industrial firms, educational institutions, emergency management offices, and other government agencies. Employed persons should have opportunities for skilled and supervisory-level positions.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EPT 130 - Mitigation & Preparedness **Credits: 3**
- EPT 140 - Emergency Management **Credits: 3**

- EPT 150 - Incident Management **Credits: 3**
- EPT 210 - Response & Recovery **Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- EPT 130 - Mitigation & Preparedness **Credits: 3**
- EPT 140 - Emergency Management **Credits: 3**

#### Spring I

- EPT 150 - Incident Management **Credits: 3**
- EPT 210 - Response & Recovery **Credits: 3**

# C55480 - Public Safety Administration Certificate

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Public Safety Administration | C55480       |

## Program Description

The Public Safety Administration curriculum is designed to provide students, as well as practitioners, with knowledge and skills in the technical, managerial, and administrative areas necessary for entrance or advancement within various public safety and government organizations.

Course work in diverse subject areas includes public safety administration and education, interagency operations, crisis leadership, government and agency financial management, professional standards, incident management, administrative law, and supervision, while providing a streamlined pathway that recognizes the value of previously earned skillsets and credentials within the public safety sector.

Employment opportunities exist with fire or police departments, emergency management organizations, governmental agencies, industrial firms, correctional facilities, private industries, insurance organizations, educational organizations, security and protective organizations, and through self-employment opportunities.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EPT 150 - Incident Management **Credits: 3**
- PAD 151 - Intro to Public Admin **Credits: 3**

- PAD 252 - Public Policy Analysis **Credits: 3**
- PAD 254 - Grant Writing **Credits: 3**

### Other Major Hours (6 Credits)

#### Group I (Take 3 credits)

- FIP 228 - Local Govt Finance **Credits: 3**
- PAD 251 - Public Finance & Budgeting **Credits: 3**

#### Group II (Take 3 Credits)

- EPT 124 - EM Services Law & Ethics **Credits: 3**
- FIP 152 - Fire Protection Law **Credits: 3**
- PAD 152 - Ethics in Government **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- PAD 151 - Intro to Public Admin **Credits: 3**
- EPT 150 - Incident Management **Credits: 3**

#### Spring I

- PAD 252 - Public Policy Analysis **Credits: 3**
- Group II Elective **Credits: 3**

#### Fall II

- PAD 254 - Grant Writing **Credits: 3**
- Group I Elective **Credits: 3**

# C55480CP - Public Safety Administration Pathway

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Public Safety Administration | C55480CP     |

## Program Description

The Public Safety Administration curriculum is designed to provide students, as well as practitioners, with knowledge and skills in the technical, managerial, and administrative areas necessary for entrance or advancement within various public safety and government organizations.

Course work in diverse subject areas includes public safety administration and education, interagency operations, crisis leadership, government and agency financial management, professional standards, incident management, administrative law, and supervision, while providing a streamlined pathway that recognizes the value of previously earned skillsets and credentials within the public safety sector.

Employment opportunities exist with fire or police departments, emergency management organizations, governmental agencies, industrial firms, correctional facilities, private industries, insurance organizations, educational organizations, security and protective organizations, and through self-employment opportunities.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EPT 150 - Incident Management **Credits: 3**
- PAD 151 - Intro to Public Admin **Credits: 3**

- PAD 152 - Ethics in Government **Credits: 3**
- PAD 251 - Public Finance & Budgeting **Credits: 3**
- PAD 252 - Public Policy Analysis **Credits: 3**
- PAD 254 - Grant Writing **Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- EPT 150 - Incident Management **Credits: 3**
- PAD 151 - Intro to Public Admin **Credits: 3**

#### Spring I

- PAD 152 - Ethics in Government **Credits: 3**
- PAD 252 - Public Policy Analysis **Credits: 3**

#### Fall II

- PAD 251 - Public Finance & Budgeting **Credits: 3**
- PAD 254 - Grant Writing **Credits: 3**

# C55490 - Elementary Education Residency Licensure Certificate

## Overview

### Department Title    Program Code

Early Childhood Associate   C55490

### Program Description

The Elementary Education Residency Certificate curriculum provides a course of study leading to the development of the general pedagogical competencies needed to become certified to teach by the North Carolina Department of Public Instruction. Course work includes learning theory, instructional/ educational technology, diverse learners, school policies and procedures, expectations and responsibilities of educators, teaching strategies/ methods for specific content/specialty areas, formative/summative assessment, data informed practice, and classroom organization/management to enhance learning. Graduates should meet general pedagogical competencies and demonstrate effective teaching practices. Additional requirements, such as pre-service training, passing the state required assessments, and the criteria included in the North Carolina Teacher Evaluation System, are required for licensure.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- EDU 270 - Effective Instructional Enviro  
**Credits: 2**
- EDU 272 - Technology, Data, and Assess  
**Credits: 3**
- EDU 277 - Integr CU Inst: Math/Science  
**Credits: 3**

- EDU 278 - Integr CU Inst: Soc Stu/ELA  
**Credits: 3**
- EDU 279 - Literacy Develop and Instruct  
**Credits: 4**
- EDU 283 - Educator Preparation Practicum  
**Credits: 3**

**Total Credits: 18**

## Semester Sequence

### Semester Sequence

#### Fall I

- EDU 270 - Effective Instructional Enviro  
**Credits: 2**
- EDU 272 - Technology, Data, and Assess  
**Credits: 3**
- EDU 277 - Integr CU Inst: Math/Science  
**Credits: 3**

#### Spring I

- EDU 278 - Integr CU Inst: Soc Stu/ELA  
**Credits: 3**
- EDU 279 - Literacy Develop and Instruct  
**Credits: 4**
- EDU 283 - Educator Preparation Practicum  
**Credits: 3**



# C60130 - Collision Repair and Refinishing Technology Certificate

## Overview

| Department Title               | Program Code |
|--------------------------------|--------------|
| Collision Repair & Refinishing | C60130       |

## Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Collision Repair and Refinishing Technology: A program that prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders, and external features. Includes instruction in structure analysis, damage repair, non-structural analysis, mechanical and electrical components, plastics and adhesives, painting and refinishing techniques, and damage analysis and estimating.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- AUB 111 - Painting & Refinishing I **Credits: 4**
- AUB 121 - Non-Structural Damage I **Credits: 3**
- TRN 110 - Intro to Transport Tech **Credits: 2**
- TRN 180 - Basic Welding for Transp **Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Days

##### Fall I

- AUB 111 - Painting & Refinishing I **Credits: 4**
- AUB 121 - Non-Structural Damage I **Credits: 3**
- TRN 110 - Intro to Transport Tech **Credits: 2**

##### Spring I

- TRN 180 - Basic Welding for Transp **Credits: 3**

# C60130CP - Collision Repair and Refinishing Technology Pathway

## Overview

| Department Title               | Program Code |
|--------------------------------|--------------|
| Collision Repair & Refinishing | C60130CP     |

## Program Description

The Collision Repair and Refinishing Technology curriculum prepares individuals to become qualified technicians who possess the diverse skills required to perform quality repairs and proper refinishing techniques on automobile bodies and to diagnose and repair mechanical and electrical systems.

Coursework includes classroom and laboratory experiences that integrate technical application with academic theory. Emphasis is placed on autobody fundamentals, painting and refinishing, structural and non-structural damage repair, mechanical and electrical component repair or replacement, and common industry practices.

Graduates should be qualified to take National Institute for Automotive Service Excellence (ASE) certification examinations and also for entry-level employment in automotive dealerships, independent repair shops, or through self-employment, as collision repair and refinishing technicians.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- AUB 111 - Painting & Refinishing I **Credits: 4**
- AUB 121 - Non-Structural Damage I **Credits: 3**
- TRN 110 - Intro to Transport Tech **Credits: 2**

- TRN 180 - Basic Welding for Transp **Credits: 3**

**Total Credits: 12**

## Semester Sequence

### Semester Sequence

#### Fall I

- AUB 111 - Painting & Refinishing I **Credits: 4**
- AUB 121 - Non-Structural Damage I **Credits: 3**
- TRN 110 - Intro to Transport Tech **Credits: 2**

#### Spring I

- TRN 180 - Basic Welding for Transp **Credits: 3**

# C60160A - Automotive Systems Technology Certificate

## Overview

### Department Title      Program Code

Automotive Systems      C60160A  
Technology

### Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Systems Technology: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- AUT 141 - Suspension & Steering Sys **Credits: 3**
- AUT 141A - Suspension & Steering Lab **Credits: 1**
- AUT 151 - Brake Systems **Credits: 3**
- AUT 151A - Brakes Systems Lab **Credits: 1**
- AUT 181 - Engine Performance 1 **Credits: 3**
- AUT 181A - Engine Performance 1 Lab **Credits: 1**
- TRN 130 - Intro to Sustainable Transp **Credits: 3**

### Total Credits: 15

## Semester Sequence

### Semester Sequence

#### Fall I

- AUT 151 - Brake Systems **Credits: 3 and**
- AUT 151A - Brakes Systems Lab **Credits: 1**

#### Spring I

- AUT 141 - Suspension & Steering Sys **Credits: 3**
- AUT 141A - Suspension & Steering Lab **Credits: 1**
- TRN 130 - Intro to Sustainable Transp **Credits: 3**

#### Summer

- AUT 181 - Engine Performance 1 **Credits: 3**
- AUT 181A - Engine Performance 1 Lab **Credits: 1**

# C60160CP - Automotive Systems Technology Pathway

## Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Automotive Systems Technology | C60160CP     |

## Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Systems Technology: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- AUT 141 - Suspension & Steering Sys **Credits: 3**
- AUT 141A - Suspension & Steering Lab **Credits: 1**
- AUT 151 - Brake Systems **Credits: 3**
- AUT 151A - Brakes Systems Lab **Credits: 1**
- AUT 181 - Engine Performance 1 **Credits: 3**
- AUT 181A - Engine Performance 1 Lab **Credits: 1**
- TRN 130 - Intro to Sustainable Transp **Credits: 3**

**Total Credits: 15**

## Semester Sequence

### Semester Sequence

#### Fall I

- AUT 151 - Brake Systems **Credits: 3**
- AUT 151A - Brakes Systems Lab **Credits: 1**

#### Spring I

- AUT 141 - Suspension & Steering Sys **Credits: 3**
- AUT 141A - Suspension & Steering Lab **Credits: 1**
- TRN 130 - Intro to Sustainable Transp **Credits: 3**

#### Summer I

- AUT 181 - Engine Performance 1 **Credits: 3**
- AUT 181A - Engine Performance 1 Lab **Credits: 1**

# C60190 - Automotive Customizing Technology Certificate

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Automotive Customizing Tech | C60190       |

## Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Customizing Technology: A program that prepares individuals to modify existing automotive vehicle components, fabrication techniques to create custom vehicle components, non-structural damage repair, custom painting and refinishing techniques, custom upholstery and glass removal/replacement/custom modifications, and other automotive technology related systems.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- TRN 110 - Intro to Transport Tech **Credits: 2**
- AUC 114 - Custom Fiberglass Skills **Credits: 4**
- AUC 115 - Glass Customizing Methods **Credits: 4**
- AUC 117 - Custom Airbrushing **Credits: 4**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall I

- AUC 114 - Custom Fiberglass Skills **Credits: 4**
- AUC 115 - Glass Customizing Methods **Credits: 4**
- TRN 110 - Intro to Transport Tech **Credits: 2**

#### Spring I

- AUC 117 - Custom Airbrushing **Credits: 4**

# C60190CP - Automotive Customizing Technology Pathway

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Automotive Customizing Tech | C60190CP     |

## Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Customizing Technology: A program that prepares individuals to modify existing automotive vehicle components, fabrication techniques to create custom vehicle components, non-structural damage repair, custom painting and refinishing techniques, custom upholstery and glass removal/replacement/custom modifications, and other automotive technology related systems.

**Degree**  
Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- TRN 110 - Intro to Transport Tech **Credits: 2**
- AUC 114 - Custom Fiberglass Skills **Credits: 4**
- AUC 115 - Glass Customizing Methods **Credits: 4**
- AUC 117 - Custom Airbrushing **Credits: 4**

**Total Credits: 14**

## Semester Sequence

### Semester Sequence

#### Fall I

- AUC 114 - Custom Fiberglass Skills **Credits: 4**
- AUC 115 - Glass Customizing Methods **Credits: 4**
- TRN 110 - Intro to Transport Tech **Credits: 2**

#### Spring I

- AUC 117 - Custom Airbrushing **Credits: 4**

# C60460 - Diesel and Heavy Equipment Technology Certificate

## Overview

### Department Title      Program Code

Diesel & Heavy Equipment Tech C60460

### Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Diesel and Heavy Equipment Technology: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as Heavy Duty Trucks over one ton classification, buses, ships, railroad locomotives, and equipment; as well as stationary diesel engines in electrical generators and related equipment.

### Degree Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HET 110 - Diesel Engines **Credits: 6**
- TRN 110 - Intro to Transport Tech **Credits: 2**
- TRN 120 - Basic Transp Electricity **Credits: 5**
- MRN 121 - Marine Engines **Credits: 4**

### Total Credits: 17

## Semester Sequence

### Semester Sequence

#### Fall I

- TRN 110 - Intro to Transport Tech **Credits: 2**
- TRN 120 - Basic Transp Electricity **Credits: 5**

#### Spring I

- HET 110 - Diesel Engines **Credits: 6**
- MRN 121 - Marine Engines **Credits: 4**



# C60460CP - Diesel and Heavy Equipment Technology Pathway

## Overview

### Department Title      Program Code

Diesel & Heavy Equipment Tech C60460CP

### Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Diesel and Heavy Equipment Technology: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as Heavy Duty Trucks over one ton classification, buses, ships, railroad locomotives, and equipment; as well as stationary diesel engines in electrical generators and related equipment.

### Degree

Certificate

## Program of Study

### Program Requirements

#### Major Requirements

- HET 110 - Diesel Engines **Credits: 6**
- MRN 121 - Marine Engines **Credits: 4**
- TRN 110 - Intro to Transport Tech **Credits: 2**
- TRN 120 - Basic Transp Electricity **Credits: 5**

### Total Credits: 17

## Semester Sequence

### Semester Sequence

#### Fall I

- TRN 110 - Intro to Transport Tech **Credits: 2**
- TRN 120 - Basic Transp Electricity **Credits: 5**

#### Spring I

- HET 110 - Diesel Engines **Credits: 6**
- MRN 121 - Marine Engines **Credits: 4**

# D20120 - Chemical Technology Diploma

## Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Chemical Technology | D20120       |

## Program Description

The Chemical Technology curriculum prepares individuals for work as analytical technicians in chemical laboratories associated with chemical production, environmental concerns, pharmaceuticals, or general analysis.

Course work includes general chemistry, organic chemistry, introductory chemical engineering, qualitative analysis, and quantitative analysis, including such instrumental techniques as spectroscopy (UV-Vis, IR, AA) and chromatography (GC, LC). Students also utilize computerized data collection, reduction, and graphic presentation.

Graduates should qualify as entry-level chemical laboratory technicians. Their duties may include chemical solution preparation; raw material, product, or environmental sampling; and/or sample testing via wet chemistry or instrumental techniques.

## Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (9 credits)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Humanities/Fine Arts Elective (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- REL 110 - World Religions **Credits: 3**

### Major Requirements (38 credits)

- CTC 110 - Chemical Safety & Technology **Credits: 2**
- CTC 114 - Wet Laboratory Techniques **Credits: 5**
- CTC 115 - Quality Control Laboratory **Credits: 5**
- CTC 145 - Advanced Laboratory Methods **Credits: 6**
- CTC 150 - Standards & Solutions **Credits: 2**
- CTC 210 - Forensic Laboratory **Credits: 2**
- CTC 235 - Food Chemistry **Credits: 2**
- CTC 240 - Instru I: Spectroscopy **Credits: 6**
- CTC 250 - Instru II: Chromatography **Credits: 6**
- CTC 260 - Chemical Technology Capstone **Credits: 2**

**Total Credits: 47**

## Semester Sequence

### Semester Sequence

#### Fall I

- CTC 110 - Chemical Safety & Technology **Credits: 2**
- CTC 114 - Wet Laboratory Techniques **Credits: 5**
- ENG 111 - Writing and Inquiry **Credits: 3**

## Spring I

- CTC 115 - Quality Control Laboratory **Credits: 5**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- CTC 150 - Standards & Solutions **Credits: 2**

## Summer I

- CTC 145 - Advanced Laboratory Methods **Credits: 6**
- Humanities/Fine Arts Elective **Credits: 3**

## Fall II

- CTC 210 - Forensic Laboratory **Credits: 2**
- CTC 240 - Instru I: Spectroscopy **Credits: 6**

## Spring II

- CTC 235 - Food Chemistry **Credits: 2**
- CTC 250 - Instru II: Chromatography **Credits: 6**
- CTC 260 - Chemical Technology Capstone **Credits: 2**

# D25110 - Hospitality Management - Lodging Professional Diploma

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Hospitality Management | D25110       |

## Program Description

This curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

## Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

Communications (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Natural Science/Math (Take 3 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**

#### Major Requirements (20 credits)

- CUL 110 - Sanitation & Safety **Credits: 2**

- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 240 - Marketing for Hospitality **Credits: 3**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**
- HRM 280 - Mgmt Problems-Hospitality **Credits: 3**

### **Other Major Hours (16 credits)**

- HRM 120 - Front Office Procedures **Credits: 3**
- HRM 130 - Bed and Breakfast Mgt. **Credits: 3**
- HRM 135 - Facilities Management **Credits: 3**
- HRM 160 - Info Systems for Hosp **Credits: 3**
- SPA 120 - Spanish for the Workplace **Credits: 3**
- WBL 110 - World of Work **Credits: 1**

**Total Credits: 42**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- HRM 110 - Intro to Hospitality & Tourism **Credits 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 160 - Info Systems Hospitality **Credits: 3**
- WBL 110 - World of Work **Credits: 1**
- CUL 110 - Sanitation and Safety **Credits: 2**

#### **Spring I**

- HRM 135 - Facilities Management **Credits: 3**
- HRM 240 - Marketing for Hospitality **Credits: 3**
- HRM 245 - Hospitality Human Resources Mgt **Credits: 3**

- MAT 143 - Quantitative Literacy **Credits: 3**
- HRM 280 - Management Problems-Hospitality **Credits: 3**

#### **Summer I**

- HRM 130 - Bed and Breakfast Management **Credits: 3**
- HRM 120 - Front Office Procedures **Credits: 3**
- HRM 230 - Club & Resort Management **Credits: 3**

#### **Fall II**

- SPA 120 - SPA in Workplace **Credits: 3**
- HRM 220 - Cost Control **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

# D25110A - Hospitality Management - Food Service Entrepreneur Diploma

## Overview

**Department Title**      **Program Code**  
Hospitality Management    D25110A

## Program Description

This curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

**Degree**  
Diploma

## Program of Study

### Program Requirements

#### General Education Requirements

**Communications** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Natural Science/Math** (Take 3 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**

## Core

**Required Courses** (Take 20 credits)

- CUL 110 - Sanitation & Safety **Credits: 2**
- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 240 - Marketing for Hospitality **Credits: 3**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**
- HRM 280 - Mgmt Problems-Hospitality **Credits: 3**

## Other Major Hours

- HRM 124 - Guest Service Management **Credits: 3**
- HRM 160 - Info Systems for Hosp **Credits: 3**
- HRM 215 - Restaurant Management **Credits: 3**
- HRM 225 - Beverage Management **Credits: 3**
- SPA 120 - Spanish for the Workplace **Credits: 3**
- WBL 110 - World of Work **Credits: 1**

**Total Credits: 42**

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation & Safety **Credits: 2**
- HRM 110 - Intro to Hosp & Tourism **Credits: 3**
- HRM 140 - Legal Issues-Hospitality **Credits: 3**
- WBL 110 - World of Work **Credits: 1**
- HRM 124 - Guest Service Management **Credits: 3**

## Spring I

- HRM 225 - Beverage Management **Credits: 3**
- HRM 240 - Marketing for Hospitality **Credits: 3**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**
- HRM 280 - Mgmt Problems-Hospitality **Credits: 3**

## Summer I

- HRM 215 - Restaurant Management **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**

## Fall II

- SPA 120 - Spanish for the Workplace **Credits: 3**
- HRM 220 - Cost Control-Food & Bev **Credits: 3**
- HRM 160 - Info Systems for Hosp **Credits: 3**

# D25120B - Business Administration - Insurance Diploma

## Overview

| Department Title        | Program Code |
|-------------------------|--------------|
| Business Administration | D25120B      |

## Program 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.

**Degree**  
Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (9 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- ECO 151 - Survey of Economics **Credits: 3**

## Major Requirements (36 credits)

- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- BUS 115 - Business Law I **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**
- BUS 147 - Business Insurance **Credits: 3**
- BUS 270 - Professional Development **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3 OR**
- CIS 111 - Basic PC Literacy **Credits: 2**
- INS 121 - Life Insurance **Credits: 3**
- INS 122 - Accident and Health Insurance  
**Credits: 3**
- INS 129 - Property & Casualty Insurance  
**Credits: 3**
- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Experience **Credits: 3**

- INS 122 - Accident and Health Insurance  
**Credits: 3**
- INS 129 - Property & Casualty Insurance  
**Credits: 3**

## Summer I

- COM 120 - Intro Interpersonal Com **Credits: 3**
- ECO 151 - Survey of Economics **Credits: 3**

## Fall II

- BUS 137 - Principles of Management **Credits: 3**
- BUS 147 - Business Insurance **Credits: 3**
- BUS 270 - Professional Development **Credits: 3**
- MKT 223 - Customer Experience **Credits: 3**

**Total Credits: 45**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- CIS 111 - Basic PC Literacy **Credits: 2**
- ACC 120 - Prin of Financial Accounting  
**Credits: 4**
- MKT 120 - Principles of Marketing **Credits: 3**
- INS 121 - Life Insurance **Credits: 3**

#### Spring I

- BUS 115 - Business Law I **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**



# D25120C - Business Administration - Entrepreneurship Diploma

## Overview

**Department Title**      **Program Code**  
Business Administration      D25120C

## Program 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.

**Degree**  
Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- **Communication Elective** (Take 3 credits)
- COM 110 - Introduction to Communication **Credits: 3**

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

### Major Requirements (16 credits)

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BUS 110 - Introduction to Business **Credits: 3**
- BUS 115 - Business Law I **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**
- BUS 137 - Principles of Management **Credits: 3**

### Other Major Requirements ( 20 credits)

**Required Courses** (Take 17 credits)

- ACC 150 - Accounting Software Appl **Credits: 2**
- BUS 139 - Entrepreneurship I **Credits: 3**
- BUS 230 - Small Business Management **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**

**Entrepreneurship Electives** (Take 3 credits)

- MKT 120 - Principles of Marketing **Credits: 3**
- MKT 223 - Customer Experience **Credits: 3**

**Total Hours: 42**

## Semester Sequence

### Semester Sequence

#### Fall I

- BUS 110 - Introduction to Business **Credits: 3**

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- BUS 139 - Entrepreneurship I **Credits: 3**
- BUS 115 - Business Law I **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**

### Spring I

- BUS 230 - Small Business Management **Credits: 3**
- BUS 125 - Personal Finance **Credits: 3**
- MKT 232 - Social Media Marketing **Credits: 3**
- PMT 110 - Intro to Project Mgmt **Credits: 3**
- ACC 150 - Accounting Software Appl **Credits: 2**
- Entrepreneurship Electives **Credits: 3**

### Summer I

- BUS 137 - Principles of Management **Credits: 3**
- Communications Elective **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

## D25350 - Business Analytics Diploma

### Overview

| Department Title   | Program Code |
|--------------------|--------------|
| Business Analytics | D25350       |

### Program Description

The Business Analytics curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in analytical professions. Business analysts process and analyze essential information about business operations and also assimilate data for forecasting purposes.

Students will complete course work in business analytics, including general theory, best practices, data mining, data warehousing, predictive modeling, project and operations management, statistical analysis, and software packages. Related skills include business communication, critical thinking and decision making.

Graduates should qualify for employment as data technicians, data scientists, business and data analytics engineers, and business analysts in the fields of finance, banking, logistics, marketing, healthcare, manufacturing, information technology, and government organizations.

### Degree

Diploma

### Program of Study

#### Program Requirements

#### General Education Requirements (9 credits)

Required English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Elective (Take 3 credits)

- COM 110 - Intro to Communications **Credits: 3**

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits:3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Social/Behavioral Science Elective (Take 3 credits)**

- ECO 151 - Survey of Economics **Credits: 3**
- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Major Requirements (28 credits)**

- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 121 - Data Visualization **Credits: 3**
- BAS 150 - Intro to Analytical Program. **Credits: 3**
- BAS 220 - Appl. Analytical Program. **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**

**Total Credits: 37**

## Semester Sequence

### Semester Sequence

#### Fall I

- BAS 120 - Intro to Analytics **Credits: 3**
- BAS 150 - Intro to Analytical Program. **Credits: 3**
- BUS 110 - Introduction to Business **Credits: 3**

- CIS 110 - Introduction to Computers **Credits: 3**

#### Spring I

- BAS 121 - Data Visualization **Credits: 3**
- BAS 220 - Appl. Analytical Program. **Credits: 3**
- DBA 110 - Database Concepts **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**

#### Summer I

- CTS 130 - Spreadsheet **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**
- Communications Elective **Credits: 3**

# D25380 - Paralegal Technology Diploma

## Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Paralegal Technology | D25380       |

## Program Description

The Paralegal Technology curriculum prepares individuals to work under the supervision of attorneys by performing routine legal tasks and assisting with substantive legal work. A paralegal/legal assistant may not practice law, give legal advice, or represent clients in a court of law.

Course work includes substantive and procedural legal knowledge in the areas of civil litigation, legal research and writing, real estate, family law, wills, estates, trusts, and commercial law. Required courses also include subjects such as English, mathematics, and computer utilization.

Graduates are trained to assist attorneys in probate work, investigations, public records search, drafting and filing legal documents, research, and office management. Employment opportunities are available in private law firms, governmental agencies, banks, insurance agencies, and other business organizations.

**Degree**  
Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6-7 credits)

**Communications** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Natural Science/Math Elective** (Take 3-4 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**

- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

### Major Hours (23 credits)

- LEX 110 - Intro to Paralegal Study **Credits: 2**
- LEX 120 - Legal Research/Writing I **Credits: 3**
- LEX 130 - Civil Injuries **Credits: 3**
- LEX 140 - Civil Litigation I **Credits: 3**
- LEX 150 - Commercial Law I **Credits: 3**
- LEX 210 - Real Property I **Credits: 3**
- LEX 240 - Family Law **Credits: 3**
- LEX 250 - Wills, Estates, & Trusts **Credits: 3**
- 

### Other Major Hours (9 credits)

- CJC 231 - Constitutional Law **Credits: 3**
- LEX 160 - Criminal Law & Procedure **Credits: 3**
- LEX 260 - Bankruptcy and Collections **Credits: 3**

### Total Credits: 38-39

## Semester Sequence

### Semester Sequence

#### Fall I

- LEX 110 - Intro to Paralegal Study **Credits: 2**
- LEX 150 - Commercial Law I **Credits: 3**
- LEX 210 - Real Property I **Credits: 3**
- LEX 140 - Civil Litigation I **Credits: 3**

#### Spring I

- CJC 231 - Constitutional Law **Credits: 3**
- LEX 120 - Legal Research/Writing I **Credits: 3**
- LEX 160 - Criminal Law & Procedure **Credits: 3**

- LEX 250 - Wills, Estates, & Trusts **Credits: 3**
- Natural Science/Math Elective **Credits: 3**

## Fall II

- LEX 130 - Civil Injuries **Credits: 3**
- LEX 240 - Family Law **Credits: 3**
- LEX 260 - Bankruptcy and Collections **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

# D25590 - Information Technology Diploma

## Overview

| Department Title       | Program Code |
|------------------------|--------------|
| Information Technology | D25590       |

## Program 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.

## Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

##### English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

##### Communications Elective (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

#### Major Requirements (15 credits)

##### Required Courses (Take 12 credits)

- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**
- CTI 120 - Network & Sec Foundation **Credits: 3**
- CTS 115 - Info Sys Business Concepts **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3 or**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Required Subject Area

##### Systems Security (Take 3 credits)

- DBA 120 - Database Programming I **Credits: 3**
- NET 125 - Introduction to Networks **Credits: 3**

#### Other Major Hours ( 21-22 credits)

##### Group I (Take 3 credits)

- CET 130 - Operating System Prin **Credits: 3**
- CIS 115 - Intro to Prog & Logic **Credits: 3**

##### Group II (Take 3 credits)

- CTI 240 - Virtualization Admin I **Credits: 3**
- CTS 240 - Project Management **Credits: 3**
- SEC 110 - Security Concepts **Credits: 3**

##### Group III (Take 3 credits)

- CSC 174 - Server-Side Javascript **Credits: 3**
- DBA 210 - Database Administration **Credits: 3**
- NET 126 - Switching and Routing **Credits: 3**

##### Group IV (Take 3-4 credits)

- CCT 250 - Network Vulnerabilities I **Credits: 3**
- CET 125 - Voice and Data Cabling **Credits: 3**
- CSC 120 - Computing Fundamentals I **Credits: 4**
- CTS 220 - Adv Hard/Software Support **Credits: 3**

##### Group V (Take 3 credits)

- CSC 256 - Software Quality Assurance **Credits: 3**

##### Group VI (Take 3 credits)

- CTI 241 - Virtualization Admin II **Credits: 3**
- NET 225 - Enterprise Networking **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**
- WEB 210 - Web Design **Credits: 3**

##### Group VII (Take 3 credits)

- CET 172 - Internet Technologies **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**
- OMT 156 - Problem-Solving Skills **Credits: 3**

#### Total Credits: 42-43

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- CTI 110 - Web, Pgm, & Db Foundation **Credits: 3**
- CTI 120 - Network & Sec Foundation **Credits: 3**
- Group I Elective **Credits: 3**
- Systems Security Elective **Credits: 3**
- CTS 120 - Hardware/Software Support **Credits: 3 or**
- CIS 110 - Introduction to Computers **Credits: 3**

#### Spring I

- CTS 115 - Info Sys Business Concepts **Credits: 3**
- Group II Elective **Credits: 3**
- Group III Elective **Credits: 3**
- Group IV Elective **Credits: 3-4**
- Group V Elective **Credits: 3**

#### Summer I

- Group VI Elective **Credits: 3**
- Group VII Elective **Credits: 3**
- Communications Elective **Credits: 3**

## D25800 - Accounting and Finance Diploma

### Overview

| Department Title     | Program Code |
|----------------------|--------------|
| Accounting & Finance | D25800       |

### Program 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.

### Degree

Diploma

### Program of Study

#### Program Requirements

#### General Education Requirements (6 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Elective (Take 3 Credits)

- COM 110 - Introduction to Communication **Credits: 3**



- COM 120 - Intro Interpersonal Comm **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

## Major Requirements (17 credits)

### Required Courses (Take 11 Credits)

- ACC 120 - Prin of Financial Accounting **Credits: 4**
- ACC 121 - Prin of Managerial Accounting **Credits: 4**
- BUS 115 - Business Law I **Credits: 3**

### Computer Applications (Take 3 Credits)

- CIS 110 - Introduction to Computers **Credits: 3**

### Spreadsheet Applications (Take 3 Credits)

- CTS 130 - Spreadsheet **Credits: 3**

## Concentration (7 credits)

- ACC 129 - Individual Income Taxes **Credits: 3**
- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 150 - Accounting Software Appl **Credits: 2**

## Other Major Hours (6 credits)

- ACC 122 - Prin of Financial Acct II **Credits: 3**
- BUS 121 - Business Math **Credits: 3**

## Total Credits: 36

## Semester Sequence

### Semester Sequence

#### Fall I

- ACC 120 - Prin of Financial Accounting **Credits: 4**

- BUS 115 - Business Law I **Credits: 3**
- BUS 121 - Business Math **Credits: 3**
- CIS 110 - Introduction to Computers **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Spring I

- ACC 121 - Prin of Managerial Accounting **Credits: 4**
- ACC 122 - Prin of Financial Acct II **Credits: 3**
- ACC 140 - Payroll Accounting **Credits: 2**
- ACC 150 - Accounting Software Appl **Credits: 2**

#### Fall II

- ACC 129 - Individual Income Taxes **Credits: 3**
- CTS 130 - Spreadsheet **Credits: 3**
- Communications Elective **Credits: 3**

# D30140 - Film and Video Production Technology Diploma

## Overview

### Department Title      Program Code

Film & Video Production      D30140  
Tech

### Program Description

The Film and Video Production Technology curriculum prepares students for entry-level employment in production support and selected technical areas of film, video, and associated media production.

Instruction provides training for entry-level crew and/or production and post-production assistants in many moving image media forms.

The first year content includes exposure to the entire production process. Students are taught by industry professionals who provide extensive hands-on instruction. In the second year, students receive professional training by performing in various crew positions on actual production projects.

Graduates may find employment as entry-level crew and/or production assistants in feature and short films, commercials, and industrial, educational, and documentary productions. Other opportunities include entry-level employment in pre-production and post-production areas for film and video.

### Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Communications Electives (Take 3 credits)

- COM 110 - Intro to Communications **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 -Public Speaking **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

### Major Requirements (26 credits)

- FVP 111 - Intro. to Film and Video **Credits: 3**
- FVP 112 - Art Dept Operations I **Credits: 3**
- FVP 113 - Grip & Electrical I **Credits: 3**
- FVP 114 - Camera & Lighting I **Credits: 3**
- FVP 115 - Camera & Lighting II **Credits: 3**
- FVP 116 - Sound Operations **Credits: 3**
- FVP 120 - Art Dept. Operations II **Credits: 3**
- FVP 212 - Production Techniques I **Credits: 5**

### Other Major Requirements (9 credits)

- CIS 110 - Introduction to Computers **Credits: 3**
- FVP 220 - Editing I **Credits: 3**
- FVP 250 - Production Specialties I **Credits: 3**

### Total Credits: 41

## Semester Sequence

### Semester Sequence

#### Fall I

- Communications Elective **Credits: 3**
- FVP 111 - Intro. to Film and Video **Credits: 3**
- FVP 112 - Art Dept Operations I **Credits: 3**
- FVP 114 - Camera & Lighting I **Credits: 3**
- FVP 220 - Editing I **Credits: 3**

## Spring I

- CIS 110 - Introduction to Computers **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- FVP 115 - Camera & Lighting II **Credits: 3**
- FVP 116 - Sound Operations **Credits: 3**
- FVP 120 - Art Dept. Operations II **Credits: 3**
- FVP 250 - Production Specialties I **Credits: 3**

## Summer I

- FVP 212 - Production Techniques I **Credits: 5**

# D30220 - Interior Design - Kitchen and Bath Design Diploma

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Interior Design  | D30220       |

## Program Description

The Interior Design curriculum is designed to prepare students for a variety of job opportunities in the field of both residential and non-residential interior design. The focus of the studies is technical knowledge, professional practices, and aesthetic principles.

Curriculum content includes residential and non-residential interior design, architectural drafting, computer-aided design, and universal design. Also included are basic design, history of interiors and furnishings, color theory, products, business practices, graphic presentations, and general education courses.

Graduates should qualify for a variety of jobs including residential and commercial interior design, set design, showroom design, and sales positions for furniture, textiles and accessories, and all businesses dealing with interiors.

## Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Major Requirements (16 credits)

- DES 110 - Architectural Graphics **Credits: 2**

- DES 125 - Visual Presentation I **Credits: 2**
- DES 135 - Prin & Elem of Design I **Credits: 4**
- DES 210 - Professional Practices/Int Des **Credits: 2**
- DES 220 - Interior Design Fundamentals **Credits: 3**
- DES 235 - Products **Credits: 3**

## **Other Major Requirements (15 credits)**

**Required (Take 12 credits)**

- DES 112 - Bldg/Construc Sys **Credits: 3**
- DES 136 - Prin & Elem of Design II **Credits: 4**
- DES 242 - Kitchen/Bath Design **Credits: 3**
- DES 265 - Lighting/Interior Design **Credits: 2**

**Interior Design Electives (Take 3 credits)**

- DES 243 - Advanced Kitchen/Bath Design **Credits: 3**

## **Other Requirements (1 credits)**

- WBL 111 - Work Based Learning I **Credits: 1**

**Total Credits: 38**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- DES 110 - Architectural Graphics **Credits: 2**
- DES 125 - Visual Presentation I **Credits: 2**
- DES 135 - Prin & Elem of Design I **Credits: 4**
- DES 235 - Products **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### **Spring I**

- DES 112 - Bldg/Construc Sys **Credits: 3**
- DES 220 - Interior Design Fundamentals **Credits: 3**
- DES 242 - Kitchen/Bath Design **Credits: 3**

- DES 265 - Lighting/Interior Design **Credits: 2**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### **Summer I**

- DES 136 - Prin & Elem of Design II **Credits: 4**
- DES 210 - Professional Practices/Int Des **Credits: 2**
- DES 243 - Advanced Kitchen/Bath Design **Credits: 3**
- WBL 111 - Work Based Learning I **Credits: 1**

# D35100 - Air Conditioning, Heating & Refrigeration Technology Diploma

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| A/C, Heating & Refrigeration | D35100       |

## Program Description

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

## Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

- ENG 101 - Applied Communications I **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

### Major Requirements (23 credits)

#### Core (Take 17 credits)

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 112 - Heating Technology **Credits: 4**
- AHR 113 - Comfort Cooling **Credits: 4**
- AHR 114 - Heat Pump Technology **Credits: 4**

#### Electricity (Take 3 credits)

- AHR 111 - HVACR Electricity **Credits: 3**

#### System Design (Take 3 credits)

- AHR 211 - Residential System Design **Credits: 3**

### Other Major Requirements (15 credits)

- AHR 115 - Refrigeration Systems **Credits: 2**
- AHR 133 - HVAC Servicing **Credits: 4**
- AHR 210 - Residential Building Code **Credits: 2**
- AHR 215 - Commercial HVAC Controls **Credits: 2**
- AHR 245 - Chiller Systems **Credits: 2**
- PTE 110 - Pathway to Employ-Construction **Credits: 3**

### Total Credits: 44

## Semester Sequence

### Semester Sequence

#### FALL START

##### Fall I

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 111 - HVACR Electricity **Credits: 3**
- AHR 112 - Heating Technology **Credits: 4**
- AHR 210 - Residential Building Code **Credits: 2**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

## Spring I

- AHR 113 - Comfort Cooling **Credits: 4**
- AHR 114 - Heat Pump Technology **Credits: 4**
- AHR 133 - HVAC Servicing **Credits: 4**
- AHR 211 - Residential System Design **Credits: 3**
- ENG 101 - Applied Communications I **Credits: 3**

## Summer I

- AHR 115 - Refrigeration Systems **Credits: 2**
- AHR 215 - Commercial HVAC Controls **Credits: 2**
- AHR 245 - Chiller Systems **Credits: 2**
- PTE 110 - Pathway to Employ-Construction **Credits: 3**

## SPRING START

### Spring I

- AHR 110 - Intro to Refrigeration **Credits: 5**
- AHR 111 - HVACR Electricity **Credits: 3**
- AHR 112 - Heating Technology **Credits: 4**
- AHR 210 - Residential Building Code **Credits: 2**

### Summer I

- AHR 114 - Heat Pump Technology **Credits: 4**
- AHR 115 - Refrigeration Systems **Credits: 2**
- AHR 215 - Commercial HVAC Controls **Credits: 2**
- PTE 110 - Pathway to Employ-Construction **Credits: 3**

### Fall I

- AHR 113 - Comfort Cooling **Credits: 4**
- AHR 133 - HVAC Servicing **Credits: 4**
- AHR 211 - Residential System Design **Credits: 3**
- AHR 245 - Chiller Systems **Credits: 2**

# D35120 - Boat Building Diploma

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Boat Building    | D35120       |

## Program Description

The Boat Building curriculum prepares individuals for employment in the boat manufacturing and repair industry. Today's boat builders are skilled craftspeople who can create complex shapes out of wood.

Course work includes reading marine blueprints, lofting, rigging, constructing bird cages, building forms, and the safe and proper use of hand and power tools. Wooden boat building, production moldmaking, and interior cabinetry and joinery are also covered.

Graduates may find employment with yacht manufacturers or with other companies needing wood furniture or moldings fabricated and installed. Other employment opportunities can be found in boat maintenance and repair yards.

## Degree Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

- ENG 101 - Applied Communications I **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Major Requirements (35 credits)

- BTB 101 - Boat Building I **Credits: 10**
- BTB 102 - Boat Building II **Credits: 9**
- BTB 103 - Yacht Joiner Practices I **Credits: 4**

- BTB 104 - Yacht Joiner Practices II **Credits: 3**
- BTB 105 - Yacht Repair/Renovation **Credits: 5**
- BTB 109 - Yacht Rigging **Credits: 2**
- DFT 100 - Marine Drafting **Credits: 2**

### Other Major Requirements (2 credits)

- CIS 111 - Basic PC Literacy **Credits: 2**

**Total Credits: 43**

## Semester Sequence

### Semester Sequence

#### Fall I

- BTB 101 - Boat Building I **Credits: 10**
- CIS 111 - Basic PC Literacy **Credits: 2**
- DFT 100 - Marine Drafting **Credits: 2**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Spring I

- BTB 102 - Boat Building II **Credits: 9**
- BTB 103 - Yacht Joiner Practices I **Credits: 4**
- ENG 101 - Applied Communications I **Credits: 3**

#### Summer I

- BTB 104 - Yacht Joiner Practices II **Credits: 3**
- BTB 105 - Yacht Repair/Renovation **Credits: 5**
- BTB 109 - Yacht Rigging **Credits: 2**

## D35130 - Electrical Systems Technology Diploma

### Overview

#### Department Title      Program Code

Electrical Systems Tech      D35130

### Program 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.

### Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Math (Take 3 credits)

- MAT 121 - Algebra/Trigonometry I **Credits: 3**

#### Major Requirements (19 credits)

Required (Take 4 credits)

- ELC 113 - Residential Wiring **Credits: 4**



### Motor Controls (Take 4 credits)

- ELC 117 - Motors and Controls **Credits: 4**

### DC/AC (Take 5 credits)

- ELC 112 - DC/AC Electricity **Credits: 5**

### Concentration Requirements (Take 6 credits)

- ELC 115 - Industrial Wiring **Credits: 4**
- ELC 118 - National Electrical Code **Credits: 2**

### Other Major Requirements (12 credits)

- CIS 111 - Basic PC Literacy **Credits: 2**
- ELC 114 - Commercial Wiring **Credits: 4**
- ELC 119 - NEC Calculations **Credits: 2**
- ELC 125 - Diagrams and Schematics **Credits: 2**
- ISC 112 - Industrial Safety **Credits: 2**

**Total Credits: 37**

## Semester Sequence

### Semester Sequence

#### Fall I

- CIS 111 - Basic PC Literacy **Credits: 2**
- ELC 112 - DC/AC Electricity **Credits: 5**
- ELC 113 - Residential Wiring **Credits: 4**
- ISC 112 - Industrial Safety **Credits: 2**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**

#### Spring I

- ELC 114 - Commercial Wiring **Credits: 4**
- ELC 117 - Motors and Controls **Credits: 4**
- ELC 118 - National Electrical Code **Credits: 2**
- ELC 125 - Diagrams and Schematics **Credits: 2**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Summer I

- ELC 115 - Industrial Wiring **Credits: 4**
- ELC 119 - NEC Calculations **Credits: 2**

## D35300 - Plumbing Diploma

### Overview

| Department Title | Program Code |
|------------------|--------------|
| Plumbing         | D35300       |

### Program 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.

Plumbing: A program that prepares individuals to work in the field of plumbing by applying technical knowledge and skills to lay out, assemble, install, and maintain piping fixtures and systems for natural gas, lp gas, hot water, drainage, sprinkling, and plumbing processing systems in residential and commercial environments. Includes instruction in source determination, water service and distribution, waste removal, pressure adjustment, basic physics, technical mathematics, print reading, pipe installation, pumps, soldering, plumbing inspection, and applicable codes and standards.

**Degree**  
Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

##### English

- ENG 101 - Applied Communications I **Credits: 3**

##### Math

- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Major Requirements (12 credits)

##### Required (Take 9 credits)

- PLU 110 - Modern Plumbing **Credits: 9**

##### Technical Core (Take 3 credits)

- BPR 130 - Print Reading-Construction **Credits: 3**

#### Other Major Requirements (25 credits)

- CIS 111 - Basic PC Literacy **Credits: 2**
- PLU 120 - Plumbing Applications **Credits: 9**
- PLU 124 - Plumbing Business Operations **Credits: 2**
- PLU 130 - Plumbing Systems **Credits: 6**
- PLU 140 - Intro to Plumbing Codes **Credits: 2**
- PLU 150 - Plumbing Diagrams **Credits: 2**
- PLU 160 - Plumbing Estimates **Credits: 2**

**Total Credits: 43**

## Semester Sequence

### Semester Sequence

#### Fall I

- BPR 130 - Print Reading-Construction **Credits: 3**
- ENG 101 - Applied Communications I **Credits: 3**

- PLU 110 - Modern Plumbing **Credits: 9**

#### Spring I

- PLU 120 - Plumbing Applications **Credits: 9**
- PLU 140 - Intro to Plumbing Codes **Credits: 2**
- PLU 150 - Plumbing Diagrams **Credits: 2**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Summer I

- CIS 111 - Basic PC Literacy **Credits: 2**
- PLU 124 - Plumbing Business Operations **Credits: 2**
- PLU 130 - Plumbing Systems **Credits: 6**
- PLU 160 - Plumbing Estimates **Credits: 2**

# D40200 - Electronics Engineering Technology Diploma

## Overview

| Department Title             | Program Code |
|------------------------------|--------------|
| Electronics Engineering Tech | D40200       |

## Program 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.

**Degree**  
Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

- MAT 121 - Algebra/Trigonometry I **Credits: 3**

### Major Requirements (20 credits)

#### Technical Core (Take 12 credits)

- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 131 - Analog Electronics I **Credits: 4**
- ELN 133 - Digital Electronics **Credits: 4**

#### Electronics Engineering Technology (Take 8 credits)

- ELC 133 - Circuit Analysis II **Credits: 4**
- ELN 132 - Analog Electronics II **Credits: 4**

### Other Major Requirements (11 credits)

#### Required (Take 4 credits)

- ELN 152 - Fabrication Techniques **Credits: 2**
- ELN 275 - Troubleshooting **Credits: 2**

#### Electives (Take 7 credits)

- ATR 112 - Intro to Automation **Credits: 3**
- ELC 117 - Motors and Controls **Credits: 4**

### Total Credits: 37

## Semester Sequence

### Semester Sequence

#### Fall I

- ATR 112 - Intro to Automation **Credits: 3**
- ELC 131 - Circuit Analysis I **Credits: 4**
- ELN 152 - Fabrication Techniques **Credits: 2**
- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**

#### Spring I

- ELC 117 - Motors and Controls **Credits: 4**
- ELC 133 - Circuit Analysis II **Credits: 4**
- ELN 131 - Analog Electronics I **Credits: 4**
- ELN 275 - Troubleshooting **Credits: 2**

## Summer I

- ELN 132 - Analog Electronics II **Credits: 4**
- ELN 133 - Digital Electronics **Credits: 4**

# D40320 - Mechanical Engineering Technology Diploma

## Overview

| Department Title            | Program Code |
|-----------------------------|--------------|
| Mechanical Engineering Tech | D40320       |

## Program 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.

## Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (9 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**

#### Major Requirements (13 credits)

##### Two-Dimensional Drawing (Take 3 credits)

- DFT 151 - CAD I **Credits: 3**

##### Three-Dimensional Drawing (Take 3 credits)

- DFT 154 - Intro Solid Modeling **Credits: 3**

##### Manufacturing (Take 3 credits)

- MEC 145 - Mfg Materials I **Credits: 3**

##### Physics (Take 4 credits)

- PHY 131 - Physics-Mechanics **Credits: 4**

#### Other Major Requirements (17 credits)

- DFT 254 - Intermed Solid Model/Render **Credits: 3**
- EGR 110 - Intro to Engineering Tech **Credits: 2**
- ELC 111 - Intro to Electricity **Credits: 3**
- MEC 111 - Machine Processes I **Credits: 3**
- MEC 130 - Mechanisms **Credits: 3**
- TDP 110 - Introduction to 3D Printing **Credits: 3**

**Total Credits: 39**

## Semester Sequence

### Semester Sequence

#### Fall I

- DFT 151 - CAD I **Credits: 3**
- EGR 110 - Intro to Engineering Tech **Credits: 2**
- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MEC 111 - Machine Processes I **Credits: 3**

#### Spring I

- DFT 154 - Intro Solid Modeling **Credits: 3**
- ELC 111 - Intro to Electricity **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**
- MEC 145 - Mfg Materials I **Credits: 3**
- PHY 131 - Physics-Mechanics **Credits: 4**

#### Summer I

- DFT 254 - Intermed Solid Model/Render **Credits: 3**
- MEC 130 - Mechanisms **Credits: 3**

# D45160 - Cardiovascular Sonography Diploma

## Overview

### Department Title      Program Code

Cardiovascular  
Sonography

D45160

### Program Description

The Cardiovascular Sonography curriculum provides the individual with the knowledge and skills necessary to acquire, process, and evaluate the human heart and vascular structures. A cardiovascular sonographer uses high frequency sound waves to produce images of the heart and vascular structures.

Course work includes effective communication and patient care skills combined with a knowledge of physics, human anatomy, physiology, and pathology, all of which are essential to obtaining high quality sonographic images.

Graduates may be eligible to apply to the American Registry of Diagnostic Medical Sonographers for examinations in physics, cardiovascular physics, vascular physics, and adult echocardiography. Graduates may find employment in hospitals, physicians' offices, mobile services, and educational institutions.

*\*This program has selective admission requirements.*

*Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

##### Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

##### Social/Behavioral Science Electives (Take 3 credits)

- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Major Requirements (34 credits)

- CVS 160 - CVS Clinical Ed I **Credits: 5**
- CVS 161 - CVS Clinical Ed II **Credits: 8**
- CVS 162 - CVS Clinical Ed III **Credits: 5**
- CVS 163 - Echo I **Credits: 4**
- CVS 164 - Echo II **Credits: 4**
- CVS 277 - Cardiovascular Topics **Credits: 2**
- SON 111 - Sonographic Physics **Credits: 4**
- SON 250 - Vascular Sonography **Credits: 2**

### Total Credits: 40

## Semester Sequence

### Semester Sequence

#### Fall I

- CVS 160 - CVS Clinical Ed I **Credits: 5**
- CVS 163 - Echo I **Credits: 4**
- SON 111 - Sonographic Physics **Credits: 4**
- Communications Elective

#### Spring I

- CVS 161 - CVS Clinical Ed II **Credits: 8**

- CVS 164 - Echo II **Credits: 4**
- SON 250 - Vascular Sonography **Credits: 2**

### Summer I

- CVS 162 - CVS Clinical Ed III **Credits: 5**
- CVS 277 - Cardiovascular Topics **Credits: 2**
- Social/Behavioral Science Elective

## D45240 - Dental Assisting Diploma

### Overview

| Department Title | Program Code |
|------------------|--------------|
| Dental Assisting | D45240       |

### Program 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.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Diploma

### Program of Study

#### Program Requirements

#### General Education Requirements (11-14 credits)

Communications (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**



**Social/Behavioral Science Elective (Take 3 credits)**

- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 240 - Social Psychology **Credits: 3**

**Natural Science/Math Elective (Take 1 group)**

**Group 1: (Take 5 credits)**

- BIO 163 - Basic Anat & Physiology **Credits: 5**

**Group 2: (Take 8 credits)**

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

**Major Requirements (36 credits)**

- DEN 100 - Basic Orofacial Anatomy **Credits: 2**
- DEN 101 - Preclinical Procedures **Credits: 7**
- DEN 102 - Dental Materials **Credits: 4**
- DEN 103 - Dental Sciences **Credits: 2**
- DEN 104 - Dental Health Education **Credits: 3**
- DEN 105 - Practice Management **Credits: 2**
- DEN 106 - Clinical Practice I **Credits: 6**
- DEN 107 - Clinical Practice II **Credits: 5**
- DEN 111 - Infection/Hazard Control **Credits: 2**
- DEN 112 - Dental Radiography **Credits: 3**

**Total Credits: 47-50**

## Semester Sequence

### Semester Sequence

#### Fall I

- DEN 100 - Basic Orofacial Anatomy **Credits: 2**
- DEN 101 - Preclinical Procedures **Credits: 7**
- DEN 102 - Dental Materials **Credits: 4**
- DEN 111 - Infection/Hazard Control **Credits: 2**

- ENG 111 - Writing and Inquiry **Credits: 3**

#### Spring I

- DEN 103 - Dental Sciences **Credits: 2**
- DEN 104 - Dental Health Education **Credits: 3**
- DEN 106 - Clinical Practice I **Credits: 6**
- DEN 112 - Dental Radiography **Credits: 3**
- Social/Behavioral Science Elective

#### Summer I

- Natural Science Elective **Credits: 5-8**
- DEN 107 - Clinical Practice II **Credits: 5**
- DEN 105 - Practice Management **Credits: 2**

# D45400 - Medical Assisting Diploma

## Overview

| Department Title  | Program Code |
|-------------------|--------------|
| Medical Assisting | D45400       |

## Program Description

The Medical Assisting curriculum prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, supervised medication administration; and ethical/legal issues associated with patient care.

Graduates of CAAHEP-accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

**Degree**  
Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6-8 credits)

**Communications** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Natural Sciences/Math Elective** (Take 3-5 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**
- MAT 121 - Algebra/Trigonometry I **Credits: 3**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 175 - Precalculus **Credits: 5**

### Major Requirements (40 credits)

- MED 110 - Orientation to Med Assist **Credits: 1**
- MED 116 - Introduction to A & P **Credits: 4**
- MED 118 - Medical Law and Ethics **Credits: 2**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 122 - Medical Terminology II **Credits: 3**
- MED 130 - Admin Office Proc I **Credits: 2**
- MED 131 - Admin Office Proc II **Credits: 2**
- MED 140 - Exam Room Procedures I **Credits: 5**
- MED 150 - Laboratory Procedures I **Credits: 5**
- MED 260 - MED Clinical Practicum **Credits: 5**
- MED 264 - Med Assisting Overview **Credits: 2**
- MED 272 - Drug Therapy **Credits: 3**
- MED 274 - Diet Therapy/Nutrition **Credits: 3**

**Total Credits: 46-48**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- MED 110 - Orientation to Med Assist **Credits: 1**
- MED 116 - Introduction to A & P **Credits: 4**
- MED 118 - Medical Law and Ethics **Credits: 2**
- MED 121 - Medical Terminology I **Credits: 3**
- MED 130 - Admin Office Proc I **Credits: 2**

- MED 131 - Admin Office Proc II **Credits: 2**

### Spring I

- MED 122 - Medical Terminology II **Credits: 3**
- MED 140 - Exam Room Procedures I **Credits: 5**
- MED 150 - Laboratory Procedures I **Credits: 5**
- MED 272 - Drug Therapy **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

### Summer I

- MED 264 - Med Assisting Overview **Credits: 2**
- MED 274 - Diet Therapy/Nutrition **Credits: 3**
- MED 260 - MED Clinical Practicum **Credits: 5**

## D45580 - Pharmacy Technology Diploma

### Overview

| Department Title    | Program Code |
|---------------------|--------------|
| Pharmacy Technology | D45580       |

### Program Description

The Pharmacy Technology Program prepares individuals to assist the pharmacist in duties that a technician can legally perform and to function within the boundaries prescribed by the pharmacist and the employment agency.

Students will prepare prescription medications, mix intravenous solutions and other specialized medications, update patient profiles, maintain inventories, package medications in unit-dose or med-card form, and gather data used by pharmacists to monitor drug therapy.

Employment opportunities include retail, hospitals, nursing homes, research laboratories, wholesale drug companies, and pharmaceutical manufacturing facilities. Graduates from the program may be eligible to take the National Certification Examination to become a certified pharmacy technician.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Diploma

### Program of Study

#### Program Requirements

#### General Education Requirements (11 credits)

- BIO 163 - Basic Anat & Physiology **Credits: 5**
- ENG 111 - Writing and Inquiry **Credits: 3**

### **Psychology Elective (Take 3 credits)**

- PSY 118 - Interpersonal Psychology **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**

### **Major Requirements (34 credits)**

- PHM 110 - Introduction to Pharmacy **Credits: 3**
- PHM 111 - Pharmacy Practice I **Credits: 4**
- PHM 115 - Pharmacy Calculations **Credits: 3**
- PHM 115A - Pharmacy Calculations Lab **Credits: 1**
- PHM 118 - Sterile Products **Credits: 4**
- PHM 120 - Pharmacology I **Credits: 3**
- PHM 125 - Pharmacology II **Credits: 3**
- PHM 133 - Pharmacy Clinical **Credits: 3**
- PHM 136 - Pharmacy Clinical **Credits: 6**
- PHM 140 - Trends in Pharmacy **Credits: 2**
- PHM 165 - Pharmacy Prof Practice **Credits: 2**

**Total Credits: 45**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- BIO 163 - Basic Anat & Physiology **Credits: 5**
- PHM 110 - Introduction to Pharmacy **Credits: 3**
- PHM 111 - Pharmacy Practice I **Credits: 4**
- PHM 115 - Pharmacy Calculations **Credits: 3**  
and
- PHM 115A - Pharmacy Calculations Lab **Credits: 1**

#### **Spring I**

- PHM 118 - Sterile Products **Credits: 4**
- PHM 120 - Pharmacology I **Credits: 3**
- PHM 136 - Pharmacy Clinical **Credits: 6**

- Psychology Elective **Credits: 3**

#### **Summer I**

- ENG 111 - Writing and Inquiry **Credits: 3**
- PHM 125 - Pharmacology II **Credits: 3**
- PHM 133 - Pharmacy Clinical **Credits: 3**
- PHM 140 - Trends in Pharmacy **Credits: 2**
- PHM 165 - Pharmacy Prof Practice **Credits: 2**

# D45660 - Practical Nursing Diploma

## Overview

| Department Title  | Program Code |
|-------------------|--------------|
| Practical Nursing | D45660       |

### Program Description

The Practical Nursing curriculum provides knowledge and skills to integrate safety and quality into nursing care to meet the needs of the holistic individual 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 safe, individualized nursing care and participation in the interdisciplinary team while employing evidence-based practice, quality improvement, and informatics.

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.

*\*This program has selective admission requirements. Contact the Health Science Enrollment Center for information and application deadlines.*

### Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (14-17 credits)

**Communications** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Social/Behavioral Science** (Take 6 credits)

- PSY 150 - General Psychology **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**

**Natural Science/Math** (Take 1 of 2 groups; 5 or 8 credits)

**Group 1** (5 credits)

- BIO 163 - Basic Anat & Physiology **Credits: 5**

**Group II** (8 credits)

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

#### Major Requirements (30 credits)

- NUR 101 - Practical Nursing I **Credits: 11**
- NUR 102 - Practical Nursing II **Credits: 10**
- NUR 103 - Practical Nursing III **Credits: 9**

**Total Credits: 44-47**

## Semester Sequence

### Semester Sequence

#### Fall I

- BIO 163 - Basic Anat & Physiology **Credits: 5**
- NUR 101 - Practical Nursing I **Credits: 11**
- PSY 150 - General Psychology **Credits: 3**

#### Spring I

- ENG 111 - Writing and Inquiry **Credits: 3**
- NUR 102 - Practical Nursing II **Credits: 10**
- PSY 241 - Developmental Psych **Credits: 3**

#### Summer I

- NUR 103 - Practical Nursing III **Credits: 9**

# D50420 - Welding Technology Diploma

## Overview

### Department Title      Program Code

Welding Technology      D50420

### Program 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.

### Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

##### Communications Elective (Take 3 credits)

- ENG 101 - Applied Communications I **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

##### Natural Science/Math (Take 3 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**

### Major Requirements (18 credits)

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 115 - SMAW (Stick) Plate **Credits: 5**
- WLD 121 - GMAW (MIG) FCAW/Plate **Credits: 4**
- WLD 131 - GTAW (TIG) Plate **Credits: 4**
- WLD 141 - Symbols & Specifications **Credits: 3**

### Other Major Requirements (16 credits)

- CIS 111 - Basic PC Literacy **Credits: 2**
- WLD 116 - SMAW (stick) Plate/Pipe **Credits: 4**
- WLD 132 - GTAW (TIG) Plate/Pipe **Credits: 3**
- WLD 215 - SMAW (stick) Pipe **Credits: 4**
- WLD 231 - GTAW (TIG) Pipe **Credits: 3**

### Total Credits: 40

## Semester Sequence

### Semester Sequence

#### Fall I

- WLD 110 - Cutting Processes **Credits: 2**
- WLD 115 - SMAW (Stick) Plate **Credits: 5**
- WLD 131 - GTAW (TIG) Plate **Credits: 4**
- WLD 141 - Symbols & Specifications **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Spring I

- CIS 111 - Basic PC Literacy **Credits: 2**
- Communications Elective **Credits: 3**
- WLD 116 - SMAW (stick) Plate/Pipe **Credits: 4**

- WLD 121 - GMAW (MIG) FCAW/Plate **Credits: 4**
- WLD 132 - GTAW (TIG) Plate/Pipe **Credits: 3**

### Summer I

- WLD 215 - SMAW (stick) Pipe **Credits: 4**
- WLD 231 - GTAW (TIG) Pipe **Credits: 3**

## D55140 - Cosmetology Diploma

### Overview

| Department Title | Program Code |
|------------------|--------------|
| Cosmetology      | D55140       |

### Program 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.

**Degree**  
Diploma

### Program of Study

#### Program Requirements

#### General Education Requirements (6 credits)

English (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

Communications Electives (Take 3 credits)

- COM 110 - Introduction to Communication **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**



- ENG 112 - Writing/Research in the Disc  
**Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

- COS 118 - Salon IV **Credits: 7**
- Communications Elective **Credits: 3**

### **Major Hours(34 credits)**

- COS 111 - Cosmetology Concepts I **Credits: 4**
- COS 112 - Salon I **Credits: 8**
- COS 113 - Cosmetology Concepts II **Credits: 4**
- COS 114 - Salon II **Credits: 8**
- COS 115 - Cosmetology Concepts III **Credits: 4**
- COS 116 - Salon III **Credits: 4**
- COS 117 - Cosmetology Concepts IV **Credits: 2**

### **Other Major Hours(7 credits)**

- COS 118 - Salon IV **Credits: 7**

**Total Credits: 47**

## **Semester Sequence**

### **Semester Sequence**

#### **Fall I**

- COS 111 - Cosmetology Concepts I **Credits: 4**
- COS 112 - Salon I **Credits: 8**

#### **Spring I**

- COS 113 - Cosmetology Concepts II **Credits: 4**
- COS 114 - Salon II **Credits: 8**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### **Summer I**

- COS 115 - Cosmetology Concepts III **Credits: 4**
- COS 116 - Salon III **Credits: 4**

#### **Fall II**

- COS 117 - Cosmetology Concepts IV **Credits: 2**

# D55150 - Culinary Arts Diploma

## Overview

| Department Title | Program Code |
|------------------|--------------|
| Culinary Arts    | D55150       |

## Program Description

The Culinary Arts curriculum provides specific training required to prepare students to assume positions as trained culinary professionals in a variety of foodservice settings including full service restaurants, hotels, resorts, clubs, catering operations, contract foodservice and health care facilities.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Courses include sanitation/safety, baking, garde manger, culinary fundamentals/production skills, nutrition, customer service, purchasing/cost control, and human resource management.

Graduates should qualify for entry-level opportunities including prep cook, line cook, and station chef. American Culinary Federation certification may be available to graduates. With experience, graduates may advance to positions including sous chef, pastry chef, executive chef, or foodservice manager.

**Degree**  
Diploma

## Program of Study

### Program Requirements

### General Education Requirements (6 credits)

**Communications** (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**

- COM 231 - Public Speaking **Credits: 3**

**Social/Behavioral Science Elective** (Take 3 credits)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

## Major Requirements (30 credits)

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 112 - Nutrition for Foodservice **Credits: 3**
- CUL 140 - Culinary Skills I **Credits: 5**
- CUL 130 - Menu Design **Credits: 2**
- CUL 160 - Baking I **Credits: 3**
- CUL 170 - Garde Manger I **Credits: 3**
- CUL 230 - Global Cuisines **Credits: 5**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**
- HRM 260 - Procurement for Hosp **Credits: 3**
- WBL 110 - World of Work **Credits: 1**

**Total Credits: 36**

## Semester Sequence

### Semester Sequence

#### Fall I

- CUL 110 - Sanitation & Safety **Credits: 2**
- CUL 140 - Culinary Skills I **Credits: 5**
- CUL 160 - Baking I **Credits: 3**
- CUL 112 - Nutrition for Foodservice **Credits: 3**
- WBL 110 - World of Work **Credits: 1**

## Spring I

- CUL 130 - Menu Design **Credits: 2**
- CUL 170 - Garde Manger I **Credits: 3**
- CUL 230 - Global Cuisines **Credits: 5**
- HRM 245 - Human Resource Mgmt-Hosp **Credits: 3**
- HRM 260 - Procurement for Hosp **Credits: 3**

## Summer I

- Communications Elective **Credits: 3**
- Social/Behavioral Science Elective **Credits: 3**

# D55220 - Early Childhood Education Diploma

## Overview

### Department Title      Program Code

Early Childhood Associate    D55220

### Program 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.

### Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**

#### Major Requirements (37 credits)

- EDU 119 - Intro to Early Child Education **Credits: 4**

- EDU 131 - Child, Family, and Community **Credits: 3**
- EDU 144 - Child Development I **Credits: 3**
- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 151 - Creative Activities **Credits: 3**
- EDU 153 - Health, Safety and Nutrition **Credits: 3**
- EDU 162 - Observ & Assess in ECE **Credits: 3**
- EDU 221 - Children With Exceptionalities **Credits: 3**
- EDU 251 - Exploration Activities **Credits: 3**
- EDU 259 - Curriculum Planning **Credits: 3**
- EDU 280 - Language/Literacy Experiences **Credits: 3**

**Total Credits: 43**

## Semester Sequence

### Semester Sequence

#### Fall I

- EDU 119 - Intro to Early Child Education **Credits: 4**
- EDU 131 - Child, Family, and Community **Credits: 3**
- EDU 144 - Child Development I **Credits: 3**
- EDU 151 - Creative Activities **Credits: 3**
- EDU 162 - Observ & Assess in ECE **Credits: 3**

#### Spring I

- EDU 145 - Child Development II **Credits: 3**
- EDU 146 - Child Guidance **Credits: 3**
- EDU 153 - Health, Safety and Nutrition **Credits: 3**
- ENG 111 - Writing and Inquiry **Credits: 3**

#### Summer I

- EDU 162 - Observ & Assess in ECE **Credits: 3**
- EDU 221 - Children With Exceptionalities **Credits: 3**
- EDU 259 - Curriculum Planning **Credits: 3**

#### Fall II

- EDU 251 - Exploration Activities **Credits: 3**
- EDU 259 - Curriculum Planning **Credits: 3**
- EDU 280 - Language/Literacy Experiences **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**

# D60130 - Collision Repair and Refinishing Technology Diploma

## Overview

| Department Title               | Program Code |
|--------------------------------|--------------|
| Collision Repair & Refinishing | D60130       |

## Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Collision Repair and Refinishing Technology: A program that prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders, and external features. Includes instruction in structure analysis, damage repair, non-structural analysis, mechanical and electrical components, plastics and adhesives, painting and refinishing techniques, and damage analysis and estimating.

**Degree**  
Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

English (Take 3 credits)

- ENG 101 - Applied Communications I **Credits: 3**

Math (Take 3 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Major Requirements (21 credits)

Fundamental Trans Skills (Take 2 credits)

- TRN 110 - Intro to Transport Tech **Credits: 2**

Intermediate Trans Skills (Take 3 credits)

- TRN 180 - Basic Welding for Transp **Credits: 3**

Specialized Trans Skills (Take 2 credits)

- TRN 140 - Transp Climate Control **Credits: 2**

Required (Take 14 credits)

- AUB 111 - Painting & Refinishing I **Credits: 4**
- AUB 121 - Non-Structural Damage I **Credits: 3**
- AUB 131 - Structural Damage I **Credits: 4**
- AUB 136 - Plastics & Adhesives **Credits: 3**

#### Other Major Requirements (17 credits)

- AUB 112 - Painting & Refinishing II **Credits: 4**
- AUB 114 - Special Finishes **Credits: 2**
- AUB 122 - Non-Structural Damage II **Credits: 4**
- AUB 141 - Mech & Elec Components I **Credits: 3**
- AUB 162 - Autobody Estimating **Credits: 2**
- TRN 140A - Transp Climate Cont Lab **Credits: 2**

**Total Credits: 44**

## Semester Sequence

### Semester Sequence

#### Fall I

- AUB 111 - Painting & Refinishing I **Credits: 4**
- AUB 121 - Non-Structural Damage I **Credits: 3**
- AUB 131 - Structural Damage I **Credits: 4**
- TRN 110 - Intro to Transport Tech **Credits: 2**

#### Spring I

- AUB 112 - Painting & Refinishing II **Credits: 4**
- AUB 122 - Non-Structural Damage II **Credits: 4**
- AUB 141 - Mech & Elec Components I **Credits: 3**
- TRN 180 - Basic Welding for Transp **Credits: 3**
- ENG 101 - Applied Communications I **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Summer I

- AUB 114 - Special Finishes **Credits: 2**
- AUB 136 - Plastics & Adhesives **Credits: 3**
- AUB 162 - Autobody Estimating **Credits: 2**
- TRN 140 - Transp Climate Control **Credits: 2 and**
- TRN 140A - Transp Climate Cont Lab **Credits: 2**

## D60160 - Automotive Systems Technology Diploma

### Overview

| Department Title              | Program Code |
|-------------------------------|--------------|
| Automotive Systems Technology | D60160       |

### Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Systems Technology: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems

### Degree Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Major Requirements (18 credits)

##### Fundamental Transport Skills (Take 2 credits)

- TRN 110 - Intro to Transport Tech **Credits: 2**

##### Intermediate Transport Skills (Take 5 credits)

- TRN 120 - Basic Transp Electricity **Credits: 5**

##### Specialized Transport Skills (Take 2 credits)

- TRN 140 - Transp Climate Control **Credits: 2**

##### Automotive Systems Technology (Take 9 credits)

- AUT 141 - Suspension & Steering Sys **Credits: 3**
- AUT 151 - Brake Systems **Credits: 3**
- AUT 181 - Engine Performance 1 **Credits: 3**

#### Other Major Requirements (14 credits)

- AUT 141A - Suspension & Steering Lab **Credits: 1**
- AUT 151A - Brakes Systems Lab **Credits: 1**
- AUT 163 - Adv Auto Electricity **Credits: 3**
- AUT 163A - Adv Auto Electricity Lab **Credits: 1**
- AUT 181A - Engine Performance 1 Lab **Credits: 1**
- AUT 212 - Auto Shop Management **Credits: 3**
- AUT 213 - Automotive Servicing 2 **Credits: 2**
- TRN 140A - Transp Climate Cont Lab **Credits: 2**

**Total Credits: 38**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- AUT 151 - Brake Systems **Credits: 3 and**
- AUT 151A - Brakes Systems Lab **Credits: 1**
- TRN 110 - Intro to Transport Tech **Credits: 2**
- TRN 120 - Basic Transp Electricity **Credits: 5**

#### Spring I

- AUT 141 - Suspension & Steering Sys **Credits: 3 and**
- AUT 141A - Suspension & Steering Lab **Credits: 1**
- AUT 163 - Adv Auto Electricity **Credits: 3 and**
- AUT 163A - Adv Auto Electricity Lab **Credits: 1**
- AUT 213 - Automotive Servicing 2 **Credits: 2**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Summer I

- AUT 181 - Engine Performance 1 **Credits: 3 and**
- AUT 181A - Engine Performance 1 Lab **Credits: 1**
- AUT 212 - Auto Shop Management **Credits: 3**
- TRN 140 - Transp Climate Control **Credits: 2 and**
- TRN 140A - Transp Climate Cont Lab **Credits: 2**



# D60190 - Automotive Customizing Technology Diploma

## Overview

**Department Title**      **Program Code**  
Automotive Customizing    D60190  
Tech

## Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Customizing Technology: A program that prepares individuals to modify existing automotive vehicle components, fabrication techniques to create custom vehicle components, non-structural damage repair, custom painting and refinishing techniques, custom upholstery and glass removal/replacement/custom modifications, and other automotive technology related systems.

**Degree**  
Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (9 credits)

**Communication** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Humanities/Fine Arts** (Take 3 credits)

- HUM 115 - Critical Thinking **Credits: 3**

**Natural Sciences/Math** (Take 3 credits)

- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Major Requirements (19 credits)

**Fundamental Transp Skills** (Take 2 credits)

- TRN 110 - Intro to Transport Tech **Credits: 2**

**Intermediate Transp Skills** (Take 3 credits)

- TRN 180 - Basic Welding for Transp **Credits: 3**

**Automotive Custom Technology** (Take 14 credits)

- AUB 111 - Painting & Refinishing I **Credits: 4**
- AUB 121 - Non-Structural Damage I **Credits: 3**
- AUC 111 - Auto Customizing Research **Credits: 3**
- AUC 112 - Auto Custom Fabrication **Credits: 4**

#### Other Major Requirements (15 credits)

**AUC** (Take 12 credits)

- AUC 114 - Custom Fiberglass Skills **Credits: 4**
- AUC 115 - Glass Customizing Methods **Credits: 4**
- AUC 117 - Custom Airbrushing **Credits: 4**

**AUT** (Take 3 credits)

- AUT 212 - Auto Shop Management **Credits: 3**

**Total Credits: 43**

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- AUB 111 - Painting & Refinishing I **Credits: 4**
- AUB 121 - Non-Structural Damage I **Credits: 3**
- AUC 114 - Custom Fiberglass Skills **Credits: 4**
- TRN 110 - Intro to Transport Tech **Credits: 2**

#### Spring I

- AUC 111 - Auto Customizing Research **Credits: 3**
- AUC 115 - Glass Customizing Methods **Credits: 4**
- AUC 117 - Custom Airbrushing **Credits: 4**
- TRN 180 - Basic Welding for Transp **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Summer I

- AUC 112 - Auto Custom Fabrication **Credits: 4**
- AUT 212 - Auto Shop Management **Credits: 3**
- HUM 115 - Critical Thinking **Credits: 3**

## D60330 - Boat Manufacture and Service Diploma

### Overview

| Department Title           | Program Code |
|----------------------------|--------------|
| Boat Manufacture & Service | D60330       |

### Program Description

The Boat Manufacture and Service Technology program prepares students for employment in the manufacture and service of boats. Students learn the basics of boat design and the implementation of those designs in various components and/or complete boats or yachts.

Course work includes reading and interpreting marine blueprints, manuals, and other documents common to the industry; lofting; constructing forms and mold-making; application of concepts and techniques in composite, and fiberglass; marine woodworking; interior finishing; and marine mechanical, electrical, and plumbing systems.

Graduates may find employment with boat/yacht manufacturers, service yards, dealerships doing commissioning work, and companies doing custom boat building.

### Degree

Diploma

### Program of Study

#### Program Requirements

#### General Education Requirements (6 credits)

- ENG 101 - Applied Communications I **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

## Major Requirements (27 credits)

### Required (Take 13 credits)

- BTB 110 - Fiberglass Boat Bldg I **Credits: 5**
- BTB 111 - Fiberglass Boat Bldg II **Credits: 5**
- BTB 112 - Fiberglass Boat Repairs **Credits: 3**

### Marine Services (Take 14 credits)

- BTB 106 - Engine Install/Systems **Credits: 5**
- BTB 107 - Boat Electrical Systems **Credits: 5**
- BTB 108 - Boat Plumbing Systems **Credits: 4**

## Other Major Requirements (6 credits)

- BMS 117 - Marine Spray Finishing **Credits: 2**
- BMS 118 - Basic Boat Operation **Credits: 2**
- CIS 111 - Basic PC Literacy **Credits: 2**

**Total Credits: 39**

## Semester Sequence

### Semester Sequence

#### Fall I

- BTB 107 - Boat Electrical Systems **Credits: 5**
- BTB 110 - Fiberglass Boat Bldg I **Credits: 5**
- BMS 118 - Basic Boat Operation **Credits: 2**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Spring I

- BMS 117 - Marine Spray Finishing **Credits: 2**
- BTB 108 - Boat Plumbing Systems **Credits: 4**
- BTB 111 - Fiberglass Boat Bldg II **Credits: 5**
- ENG 101 - Applied Communications I **Credits: 3**

#### Summer I

- BTB 106 - Engine Install/Systems **Credits: 5**
- BTB 112 - Fiberglass Boat Repairs **Credits: 3**

## D60460 - Diesel and Heavy Equipment Technology Diploma

### Overview

#### Department Title      Program Code

Diesel & Heavy Equipment Tech      D60460

### Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Diesel and Heavy Equipment Technology: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as Heavy Duty Trucks over one ton classification, buses, ships, railroad locomotives, and equipment; as well as stationary diesel engines in electrical generators and related equipment.

### Degree

Diploma

## Program of Study

### Program Requirements

#### General Education Requirements (6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Major Requirements (24 credits)

##### Fundamental Trans Skills (Take 5 credits)

- TRN 110 - Intro to Transport Tech **Credits: 2**
- HET 134 - Diesel Fuel & Power Sys **Credits: 3**

##### Intermediate Trans Skills (Take 5 credits)

- TRN 120 - Basic Transp Electricity **Credits: 5**

##### Diesel and Heavy Equipment (Take 14 credits)

- HET 110 - Diesel Engines **Credits: 6**
- MRN 121 - Marine Engines **Credits: 4**
- MRN 147 - Marine Power Trains **Credits: 4**

#### Other Major Requirements (7 credits)

- CIS 111 - Basic PC Literacy **Credits: 2**
- HET 115 - Electronic Engines **Credits: 3**
- WLD 112 - Basic Welding Processes **Credits: 2**

### Total Credits: 37

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- HET 134 - Diesel Fuel & Power Sys **Credits: 3**
- TRN 110 - Intro to Transport Tech **Credits: 2**
- TRN 120 - Basic Transp Electricity **Credits: 5**

#### Spring I

- CIS 111 - Basic PC Literacy **Credits: 2**

- HET 110 - Diesel Engines **Credits: 6**
- MRN 121 - Marine Engines **Credits: 4**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Summer I

- HET 115 - Electronic Engines **Credits: 3**
- MRN 147 - Marine Power Trains **Credits: 4**
- WLD 112 - Basic Welding Processes **Credits: 2**

# D60460PG - Onsite Diesel Power Generation Technology Diploma

## Overview

### Department Title      Program Code

Diesel & Heavy Equipment Tech      D60460PG

### Program Description

Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen. Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Diesel and Heavy Equipment Technology: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as Heavy Duty Trucks over one ton classification, buses, ships, railroad locomotives, and equipment; as well as stationary diesel engines in electrical generators and related equipment.

### Degree

Diploma

## Program of Study

### Program Requirements

#### General Education (6 Credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

#### Major Requirements (25 Credits)

##### Fundamental Trans Skills (Take 5 credits)

- HET 134 - Diesel Fuel & Power Sys **Credits: 3**
- TRN 110 - Intro to Transport Tech **Credits: 2**

##### Intermediate Trans Skills (Take 5 credits)

- TRN 120 - Basic Transp Electricity **Credits: 5**

##### Diesel & Heavy Equipment (Take 15 credits)

- HET 110 - Diesel Engines **Credits: 6**
- MRN 121 - Marine Engines **Credits: 4**
- MRN 150 - Adv Marine Electrical Sys **Credits: 5**

#### Other Major Requirements (7 Credits)

- CIS 111 - Basic PC Literacy **Credits: 2**
- HET 115 - Electronic Engines **Credits: 3**
- WLD 112 - Basic Welding Processes **Credits: 2**

### Total Credits: 38

## Semester Sequence

### Semester Sequence

#### Fall I

- ENG 111 - Writing and Inquiry **Credits: 3**
- HET 134 - Diesel Fuel & Power Sys **Credits: 3**
- TRN 110 - Intro to Transport Tech **Credits: 2**
- TRN 120 - Basic Transp Electricity **Credits: 5**

#### Spring I

- HET 110 - Diesel Engines **Credits: 6**

- MRN 121 - Marine Engines **Credits: 4**
- MRN 150 - Adv Marine Electrical Sys **Credits: 5**

## Summer I

- CIS 111 - Basic PC Literacy **Credits: 2**
- HET 115 - Electronic Engines **Credits: 3**
- WLD 112 - Basic Welding Processes **Credits: 2**
- MAT 110 - Math Measurement & Literacy **Credits: 3**

# P1012C - College Transfer - Associate in Arts Pathway

## Overview

### Program Code

P1012C

### Program 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.

## Program of Study

### Program Requirements

#### General Education Requirements (31 credits)

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

#### Communications/Humanities/Fine Arts Electives

(Take 9 credits; *Minimum 2 subjects*)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**

- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Social/Behavioral Sciences Electives** (Take 9 credits;  
*Minimum 2 subjects*)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**

**Math** (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Natural Sciences** (Take 1 group; 4 credits)

**Group I**

- AST 111 - Descriptive Astronomy **Credits: 3**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**

**Group II**

- BIO 110 - Principles of Biology **Credits: 4**

**Group III**

- BIO 111 - General Biology I **Credits: 4**

**Group IV**

- CHM 151 - General Chemistry I **Credits: 4**

**Group V**

- GEL 111 - Geology **Credits: 4**

**Group VI**

- PHY 110 - Conceptual Physics **Credits: 3**

- PHY 110A - Conceptual Physics Lab **Credits: 1**

**Group VII**

- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**

**Other Required Hours (1 credit)**

- ACA 122 - College Transfer Success **Credits: 1**

**Optional General Education Hours**

A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

**Total Credits: 32**



# P1012T - College Transfer - Associate in Arts in Teacher Preparation Pathway

## Overview

|                         |                     |
|-------------------------|---------------------|
| <b>Department Title</b> | <b>Program Code</b> |
| Education               | P1012T              |

### Program Description

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

## Program of Study

### Program Requirements

#### UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (28-29 credits)

**English** (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

**Humanities/Fine Arts Electives** (Take 9 credits; *Minimum 2 subjects*)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**

- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Social/Behavioral Sciences Electives** (Take 6 credits; *Minimum 2 subjects*)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Math Electives** (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Natural Sciences Electives** (Take 1 group; 4 credits)

#### Group I

- AST 111 - Descriptive Astronomy **Credits: 3**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**

#### Group II

- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**

#### Group III

- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

#### Group IV

BIO 110 - Principles of Biology **Credits: 4**

#### Group V

BIO 111 - General Biology I **Credits: 4**

#### Group VI

CHM 151 - General Chemistry I **Credits: 4**

#### Group VII

GEL 111 - Geology **Credits: 4**

### Other Required General Education (3 credits)

- SOC 225 - Social Diversity **Credits: 3**

### OTHER REQUIRED HOURS (8 credits)

**Education** (Take 7 credits)

- EDU 187 - Teaching and Learning for All **Credits: 4**
- EDU 216 - Foundations of Education **Credits: 3**

**Academic Transition** (Take 1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

### Total Credits: 39-40

### Optional General Education Hours

A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

## P1032C - College Transfer - Associate in General Education Pathway

### Overview

**Department Title      Program Code**

Associate Degree Nursing   P1032C

### Program 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.

## Program of Study

### Program Requirements

#### General Education Requirements (23 credits)

**English** (Take 2 groups, 6 credits)

**Group I** (Take 3 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**

**Group II** (Take 3 credits)

- ENG 112 - Writing/Research in the Disc **Credits: 3**
- ENG 114 - Prof Research & Reporting **Credits: 3**

**Humanities/Fine Arts Electives** (Take 3 Credits)

- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Natural Sciences** (Take 8 credits)

- BIO 168 - Anatomy and Physiology I **Credits: 4**
- BIO 169 - Anatomy and Physiology II **Credits: 4**

**Social/Behavioral Sciences** (Take 6 credits)

- PSY 150 - General Psychology **Credits: 3**
- PSY 241 - Developmental Psych **Credits: 3**

#### Other Required Hours (1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

**Total Credits: 24**

## P1042C - College Transfer - Associate in Science Pathway

### Overview

#### Program Code

P1042C

#### Program 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 degree and a baccalaureate degree in a STEM or technical major.

### Program of Study

#### Program Requirements

#### General Education Requirements (34 credits)

**English** (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

#### Communications/Humanities/Fine Arts Electives

(Take 6 credits; *Minimum 2 subjects*)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**

- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Social/Behavioral Sciences Electives** (Take 6 credits;  
*Minimum 2 subjects*)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Math Electives** (Take 8 credits)

- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 263- Brief Calculus **Credits: 4**
- MAT 271- Calculus I **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**
- 

**Natural Science Electives** (Take 1 Group, 8 credits)

**Group I**

- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**
- AST 152 - General Astronomy II **Credits: 3**
- AST 152A - General Astronomy II Lab **Credits: 1**

**Group II**

- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**

**Group III**

- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**
- GEL 111 - Geology **Credits: 4**
- **Group IV**
- 
- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**
- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- 
- **Group V**
- 
- AST 152 - General Astronomy II **Credits: 3**
- AST 152A - General Astronomy II Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**

**Group VI**

- AST 152 - General Astronomy II **Credits: 3**
- AST 152A - General Astronomy II Lab **Credits: 1**
- GEL 111 - Geology **Credits: 4**
- 
- **Group VII**
- 
- AST 152 - General Astronomy II **Credits: 3**
- AST 152A - General Astronomy II Lab **Credits: 1**
- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- 
- **Group VIII**
- 
- BIO 110 - Principles of Biology **Credits: 4**

- GEL 111 - Geology **Credits: 4**
- 
- **Group IX**
- 
- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 110A - Conceptual Physics Lab **Credits: 1**
- BIO-110 Principles of Biology **Credits: 4**
- 
- **Group X**
- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**

#### **Group XI**

- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**

#### **Group XII**

- PHY 110 - General Astronomy I **Credits: 3**
- PHY-110A - General Astronomy I Lab **Credits: 1**
- GEL 111 - Geology **Credits: 4**

#### **Group XIII**

- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**

#### **Group VII**

- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**

### **Optional General Education Hours**

A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

### **Other Required Hours (1 credit)**

- ACA 122 - College Transfer Success **Credits: 1**

### **Total Credits: 35**

# P1042T - College Transfer - Associate in Science in Teacher Preparation Pathway

## Overview

### Program Code

P1042T

### Program Description

The CCP College Transfer Pathway Leading to the Associate in Science in Teacher Preparation is designed for high school students who wish to begin study toward the Associate in Science in Teacher Preparation degree and a baccalaureate degree in teaching in a STEM or technical major.

## Program of Study

### Program Requirements

#### UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT

English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

#### Communications/Humanities/Fine Arts Electives

(Take 6 credits; *Minimum 2 subjects*)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**

- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

#### Social/Behavioral Sciences Electives (Take 3 credits)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

#### Math Electives (Take 8 credits)

- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 172 - Precalculus Trigonometry **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**

#### Natural Science Electives (Take 1 group; 8 credits)

##### Group I

- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**
- BIO 110 - Principles of Biology **Credits: 4**

##### Group II

- BIO 111 - General Biology I **Credits: 4**
- BIO 112 - General Biology II **Credits: 4**

##### Group III

- CHM 151 - General Chemistry I **Credits: 4**
- CHM 152 - General Chemistry II **Credits: 4**

#### Group IV

- GEL 111 - Geology **Credits: 4**
- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

#### Group V

- PHY 151 - College Physics I **Credits: 4**
- PHY 152 - College Physics II **Credits: 4**

#### Group VI

- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**

### Other Required General Education (3 credits)

- SOC 225 - Social Diversity **Credits: 3**

### OTHER REQUIRED HOURS (8 credits)

#### Education (Take 7 credits)

- EDU 187 - Teaching and Learning for All **Credits: 4**
- EDU 216 - Foundations of Education **Credits: 3**

#### Academic Transition (Take 1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

### Total Credits: 42

### Optional General Education Hours

A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

## P1052C - College Transfer - Associate in Engineering Pathway

### Overview

| Department Title         | Program Code |
|--------------------------|--------------|
| Associate in Engineering | P1052C       |

### Program 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.

### Program of Study

### Program Requirements

#### General Education Requirements

##### English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- COM 231 - Public Speaking **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Social/Behavioral Sciences (Take 3 credits)

- ECO 251 - Prin of Microeconomics **Credits: 3**

##### Mathematics Electives (Take 8 credits)

- MAT 271 - Calculus I **Credits: 4**
- MAT 272 - Calculus II **Credits: 4**



### Natural Sciences Electives (Take 8 credits)

- CHM 151 - General Chemistry I **Credits: 4**
- PHY 251 - General Physics I **Credits: 4**
- PHY 252 - General Physics II **Credits: 4**

### Other Required Hours (6 credits)

- ACA 122 - College Transfer Success **Credits: 1**
- DFT 170 - Engineering Graphics **Credits: 3**
- EGR 150 - Intro to Engineering **Credits: 2**

### Total Credits: 34

### Optional General Education Hours

A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

## P1062C - College Transfer - Associate in Fine Arts in Visual Arts Pathway

### Overview

**Department Title**      **Program Code**  
Assoc Fine Arts Visual Arts P1062C

### Program Description

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

### Program of Study

### Program Requirements

### General Education Requirements (25-26 credits)

#### English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

#### Communications/Humanities/Fine Arts Elective (Take 6 credits; *Minimum 2 subjects*)

- ART 111 - Art Appreciation **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**

- PHI 240 - Introduction to Ethics **Credits: 3**

**Social/Behavioral Sciences Electives** (Take 6 credits;  
*Minimum 2 subjects*)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Math Electives** (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

**Natural Sciences Electives** (Take 1 groups; 4 credits)

**Group I**

- AST 111 - Descriptive Astronomy **Credits: 3**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**

**Group II**

- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**

**Group III**

- BIO 110 - Principles of Biology **Credits: 4**

**Group IV**

- BIO 111 - General Biology I **Credits: 4**

**Group V**

- CHM 151 - General Chemistry I **Credits: 4**

**Group VI**

- GEL 111 - Geology **Credits: 4**

**Group VII**

- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

**Other Required Hours (7 credits)**

**Required Courses** (Take 1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

**Art** (Take 6 credits)

- ART 121 - Two-Dimensional Design **Credits: 3**
- ART 131 - Drawing I **Credits: 3**

**Total Credits: 32-33**

**Optional General Education Hours**

A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

# P1072C - College Transfer - Associate in Fine Arts in Music Pathway

## Overview

| Department Title      | Program Code |
|-----------------------|--------------|
| Assoc Fine Arts Music | P1072C       |

## Program Description

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

## Program of Study

### Program Requirements

#### General Education Requirements (25-26 credits)

##### English (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

##### Communications Electives (Take 3 credits)

- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**

##### Humanities/Fine Arts Electives (Take 3 credits)

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**

- MUS 110 - Music Appreciation **Credits: 3**
- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

##### Social/Behavioral Science Electives (Take 6 credits; Minimum 2 subjects)

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

##### Mathematics Electives (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**

##### Natural Science Electives (Take 1 Group; 4 credits)

###### Group I

- AST 111 - Descriptive Astronomy **Credits: 3**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**

###### Group II

- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**

###### Group III

- BIO 110 - Principles of Biology **Credits: 4**

###### Group IV

- BIO 111 - General Biology I **Credits: 4**

### Group V

CHM 151 - General Chemistry I **Credits: 4**

### Group VI

- GEL 111 - Geology **Credits: 4**

### Group VII

- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

## Other Required Courses (7 credits)

**Music** (Take 4 credits)

- MUS 111 - Fundamentals of Music **Credits: 3**  
and
- MUS 151 - Class Music I **Credits: 1**

**Ensemble** (Take 2 credits)

- MUS 131 - Chorus I **Credits: 1**
- MUS 132 - Chorus II **Credits: 1**
- MUS 133 - Band I **Credits: 1**
- MUS 134 - Band II **Credits: 1**
- MUS 135 - Jazz Ensemble I **Credits: 1**
- MUS 136 - Jazz Ensemble II **Credits: 1**
- MUS 137 - Orchestra I **Credits: 1**
- MUS 138 - Orchestra II **Credits: 1**
- MUS 141 - Ensemble I **Credits: 1**
- MUS 142 - Ensemble II **Credits: 1**

**Academic Transition** (Take 1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

## Total Credits: 32

### Optional General Education Hours

A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better

will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

# P1082C - College Transfer - Associate in Fine Arts in Theatre Pathway

## Overview

**Department Title**      **Program Code**  
Assoc Fine Arts Theatre      P1082C

## Program Description

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

## Program of Study

### Program Requirements

#### General Education Requirements (25-26 credits)

**English** (Take 6 credits)

- ENG 111 - Writing and Inquiry **Credits: 3**
- ENG 112 - Writing/Research in the Disc **Credits: 3**

**Humanities/Fine Arts Electives** (Take 6 credits)

*Select two courses from two different disciplines*

- ART 111 - Art Appreciation **Credits: 3**
- ART 114 - Art History Survey I **Credits: 3**
- ART 115 - Art History Survey II **Credits: 3**
- COM 120 - Intro Interpersonal Com **Credits: 3**
- COM 231 - Public Speaking **Credits: 3**
- DRA 111 - Theatre Appreciation **Credits: 3**
- ENG 231 - American Literature I **Credits: 3**
- ENG 232 - American Literature II **Credits: 3**
- ENG 241 - British Literature I **Credits: 3**
- ENG 242 - British Literature II **Credits: 3**
- MUS 110 - Music Appreciation **Credits: 3**

- MUS 112 - Introduction to Jazz **Credits: 3**
- PHI 215 - Philosophical Issues **Credits: 3**
- PHI 240 - Introduction to Ethics **Credits: 3**

**Social/Behavioral Science Electives** (Take 6 credits)

*Select two courses from two different disciplines*

- ECO 251 - Prin of Microeconomics **Credits: 3**
- ECO 252 - Prin of Macroeconomics **Credits: 3**
- HIS 111 - World Civilizations I **Credits: 3**
- HIS 112 - World Civilizations II **Credits: 3**
- HIS 131 - American History I **Credits: 3**
- HIS 132 - American History II **Credits: 3**
- POL 120 - American Government **Credits: 3**
- PSY 150 - General Psychology **Credits: 3**
- SOC 210 - Introduction to Sociology **Credits: 3**

**Mathematics Electives** (Take 3-4 credits)

- MAT 143 - Quantitative Literacy **Credits: 3**
- MAT 152 - Statistical Methods I **Credits: 4**
- MAT 171 - Precalculus Algebra **Credits: 4**
- MAT 271 Calculus I **Credits: 4**

**Natural Science Electives** (Take 1 group)

Group 1:

- AST 111 - Descriptive Astronomy **Credits: 3**
- AST 111A - Descriptive Astronomy Lab **Credits: 1**

Group 2:

- AST 151 - General Astronomy I **Credits: 3**
- AST 151A - General Astronomy I Lab **Credits: 1**

Group 3:

- BIO 110 - Principles of Biology **Credits: 4**

Group 4:

- BIO 111 - General Biology I **Credits: 4**

Group 5:

- CHM 151 - General Chemistry I **Credits: 4**

Group 6:

- GEL 111 - Geology **Credits: 4**

Group 7:

- PHY 110 - Conceptual Physics **Credits: 3**
- PHY 110A - Conceptual Physics Lab **Credits: 1**

## Other Required Courses (7 credits)

**Theatre** (Choose 1 Track; 6 credits)

**Acting Track**

- DRA 130 - Acting I **Credits: 3**
- DRA 170 - Play Production I **Credits: 3**

**Technical Track**

- DRA 140 - Stagecraft I **Credits: 3**
- DRA 170 - Play Production I **Credits: 3**

**Academic Transition** (1 credit)

- ACA 122 - College Transfer Success **Credits: 1**

## Total Credits: 32-33

## Optional General Education Hours

A student may take up to 8 SHC of foreign language courses, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

# P9099A - Career and College Ready Pathway

## Overview

### Department Title

53813948-ea1d-4eca-857d-8cb78e3e0b62

### Program Code

P9099A

## Program Description

The CCP Career and College Ready Pathway offers high school students career exploration and college preparatory coursework, facilitating their transition to college or the workforce. Students who complete the required supplemental coursework may qualify for any approved CCP Pathway available at participating colleges.

# All Courses

## 110 - Air Navigation

### Overview

#### Course Description

This course covers the basic elements of air navigation, fundamentals of pilotage and dead reckoning, and the use of a plotter, computer, and aerial charts. Topics include pilotage, dead reckoning, radio navigation, LORAN, Global Positioning Systems, and the use of FAA publications. Upon completion, students should be able to interpret aeronautical charts and apply navigational principles.

#### Course ID

S12837

#### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

#### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

## 111 - Aviation Meteorology

### Overview

#### Course Description

This course covers the atmosphere, interpretation and measurement of meteorological elements, and the effects of such on aircraft operations and performance. Topics include heat exchanges in the atmosphere; temperature, pressure, stability, clouds, air masses, fronts, and thunderstorms; and the use and interpretation of weather data. Upon completion, students should be able to analyze weather data for flight planning and safe flying.

#### Course ID

S12764

#### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

#### Billing Hours

Billing  
Hours  
3  
Min:



# 112 - Aviation laws and FARs

## Overview

### Course Description

This course provides an in-depth study of the state, federal, and international regulations forming the structure of aviation law. Emphasis is placed on Federal Aviation Regulations Parts 61, 91, and 135 with additional emphasis on legal issues in aviation law. Upon completion, students should be able to apply legal principles and interpret federal air regulations.

### Course ID

S12811

### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
2

# 113 - History of Aviation

## Overview

### Course Description

This course provides a historical survey of the efforts of manned-flight. Topics include the development of aircraft, milestones in aviation, noted pioneers, and the socioeconomic impact of flight upon modern civilization. Upon completion, students should be able to demonstrate an understanding of the advancements that aviation has accrued for society and contemporary changes in aviation.

### Course ID

S12725

### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
2

# 114 - Aviation Management

## Overview

### Course Description

This course covers operation of a flight department on a cost-effective basis and analysis of profit and loss statements. Topics include flight operations costs, aircraft acquisition analysis and cost comparisons, costs versus revenue, and break-even points. Upon completion, students should be able to calculate cost of flight operations and apply monthly and annual budget analysis.

### Course ID

S12834

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:

# 120 - Pharmaceutical Quality Control

## Overview

### Course Description

This course covers the principles and techniques of quality control as found in the pharmaceutical industry. Emphasis is placed on lot inspection, sampling procedures, control charts, vendor auditing, and statistical analysis. Upon completion, students should be able to apply and follow the appropriate statistical sampling plans for Pharmaceutical Product Lot Acceptance.

### Course ID

S26223

### Credit Hours

Credit  
Hours  
4  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
4  
Min:

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

### Simple Requisites

State prerequisite

Type

Prerequisite

Take BPM-110 or BTC-181

Take BPM-110(S20448) or BTC-181(S26184);

# 130 - Physical Therapy Procedures I

## Overview

### Course Description

This course includes concepts of injury and repair and documentation methods. Emphasis is placed on physiological effects, indications, contraindications, and skilled applications of selected therapeutic modalities. Upon completion, students should be able to safely, correctly, and effectively apply the emphasized techniques and procedures with understanding of correct documentation.

### Course ID

S22179

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

State concurrent or previous courses

Type  
Corequisite

Take PTA-110

Take PTA-110;

# 140 - Therapeutic Exercise

## Overview

### Course Description

This course covers muscle physiology, exercise concepts, testing, and applications to the spine and extremities. Topics include strength, endurance, flexibility, and exercise protocols and progressions. Upon completion, students should be able to demonstrate skill in applying therapeutic exercise principles for non-neurological conditions in a safe and appropriate manner.

### Course ID

S13538

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

State concurrent or previous courses

Type  
Corequisite

- Take PTA-120
- Take PTA-120;

# 150 - Physical Therapy Procedures II

## Overview

### Course Description

This course is designed to include the theory and practice of additional therapeutic interventions. Topics include but are not limited to electrotherapy, burn and wound care, biofeedback, and selected data collection methods. Upon completion, students should be able to apply these modalities and treatment techniques effectively and safely and demonstrate knowledge of physiological principles involved.

**Course ID**  
S22180

**Credit Hours**

**Credit Hour  
s**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

**Billing Hours**

**Billing Hour  
s**  
**Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 6              | Load 6   |

### Simple Requisites

| State prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |
| Take PTA-130       |  |

Take PTA-130(S22179);

# 151 - Flight-Private Pilot

## Overview

### Course Description

This course provides the hands-on training needed to qualify for a Federal Aviation Administration private pilot certificate. Topics include flight maneuvers (ground procedures, take-offs, climbs, level flight, turns, glides, stalls, slow flight, descents, slips, landings, emergency procedures) and cross-country planning and navigation. Upon completion, students should be able to demonstrate the competencies required for the flight test practical exam for the private pilot certificate.

**Course ID**  
S13436

**Credit Hours**

**Credit Hour  
s**  
**Min:**  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

**Billing Hours**

**Billing Hour  
s**  
**Min:**  
1

# 160 - Physical Therapy Procedures III

Take PTA-150

Take PTA-150(S22180);

## Overview

### Course Description

This course introduces treatment and measurement techniques and discusses treatment programs for selected neuromusculoskeletal dysfunction and injuries. Topics include soft tissue and joint dysfunction, selected assessment techniques, and various exercise programs. Upon completion, students should be able to demonstrate the application of selected data collection methods and functional interventions.

### Course ID

S22181

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

|                    |              |
|--------------------|--------------|
| State prerequisite |              |
| Type               | Prerequisite |

# 161 - Flight-Instrument Pilot

## Overview

### Course Description

This course covers instruction and training in instrument flight planning including IFR navigation, VOR, ILS, ADF, and compliance with ATC procedures. Emphasis is placed on approach and navigation procedures, including holding and missed approaches, and development of skill in executing en route and approach procedures. Upon completion, students should be able to plan and execute an IFR flight and demonstrate competencies required for the FAA instrument pilot flight exam.

### Course ID

S10632

### Credit Hours

Credit  
Hours  
3  
Min:  
2

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 6        | 6    |

### Billing Hours

Billing  
Hours  
3  
Min:  
2

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |
| Take AER-151       |              |

# 170 - Pathophysiology

## Overview

### Course Description

This course is a survey of basic pathology with emphasis on conditions most frequently observed and treated in physical therapy. Topics include etiology, pathology, manifestation, treatment, and prognosis. Upon completion, students should be able to explain repair processes, categorize diseases, define pathology, identify organ/body systems involved, and discuss treatment and prognosis.

### Course ID

S13017

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3



# 171 - Flight-Commercial Pilot

## Overview

### Course Description

This course provides the hands-on training needed to qualify for a Federal Aviation Administration commercial pilot certificate. Topics include flight instruction in advanced precision maneuvers, maximum performance take-off and landings, emergency procedures, operation of complex aircraft, aircraft performance, and range and fuel planning. Upon completion, students should be able to demonstrate competence in the areas of the flight test practical exam for the commercial pilot certificate.

### Course ID

S24814

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take AER-151         |

# 180 - PTA Clinical Ed Intro

## Overview

### Course Description

This course introduces the physical therapy clinic in planned learning experiences and practice under supervision. Emphasis is placed on reinforcement of learned skills in direct patient care and communication. Upon completion, students should be able to demonstrate satisfactory performance in learned patient care skills, communication activities, and professional behaviors.

### Course ID

S13773

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 9              | 9     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# 181 - Basic Laboratory Techniques

## Overview

### Course Description

This course introduces the basic skills and knowledge necessary in a biological or chemical laboratory. Emphasis is placed on good manufacturing practices, safety, sustainable lab practices, solution preparation, and equipment operation and maintenance following standard operating procedures. Upon completion, students should be able to prepare and perform basic laboratory procedures using labware, solutions, and equipment according to prescribed protocols.

### Course ID

S26184

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# 182 - Pharmaceutical Laboratory Techniques I

## Overview

### Course Description

This course covers theoretical and technical aspects of dissolution testing and Karl Fischer titrations performed during routine drug stability testing by pharmaceutical industries. Emphasis is placed on solution preparation, drug extractions, dissolution testing, Karl Fischer titrations, and dissolution method development and validation. Upon completion, students should be able to successfully perform and document dissolution testing and Karl Fischer titrations while simultaneously adhering to current good manufacturing practices (cGMP).

### Course ID

S24815

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 6              | 6        |

## Simple Requisites

State prerequisite

Type  
Prerequisite

Take BTC-181

Take BTC-181(S23356);

## 210 - Pharmaceutical Industrial Processes

### Overview

#### Course Description

This course examines the manufacturing processes for selected pharmaceutical dosage forms. Emphasis is placed on manufacturing and testing of tablets, capsules, sustained release drugs, solutions, emulsions, suspensions, creams, ointments, aerosols, and sterile products. Upon completion, students should be able to demonstrate the processing steps and test procedures for these dosage forms.

#### Course ID

S21436

#### Credit Hours

Credit  
Hours  
3  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

#### Billing Hours

Billing  
Hours  
2  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

## 211 - Air Traffic Control

### Overview

#### Course Description

This course provides a detailed analysis of all aspects of air traffic control. Emphasis is placed on an in-depth analysis of air traffic control, including utilization of the air traffic environment based on the pilot's and controller's perspective. Upon completion, students should be able to operate an aircraft within the national airspace system under FAA air traffic control.

#### Course ID

S12014

#### Credit Hours

Credit  
Hours  
2  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

#### Billing Hours

Billing  
Hours  
2  
Min:  
2

## 212 - Health Care/Resources

### Overview

#### Course Description

This course provides an overview of various aspects of health care delivery systems and the interrelationships of health care team members. Topics include health agencies and their functions, health care team member roles, management, and other health care issues. Upon completion, students should be able to discuss the functions of health organizations and team members and aspects of health care affecting physical therapy delivery.

#### Course ID

S12428

#### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

#### Billing Hours

Billing  
Hours  
2

## 213 - Avionics

### Overview

#### Course Description

This course covers standard navigational and communications equipment and theory. Emphasis is placed on aviation radio spectrum, VHF omnirange, ILS, ADF, transponders, weather radar, flight directors, and autopilots. Upon completion, students should be able to utilize VOR, ADF, ILS, GPS, flight directors, HSI's, and autopilots in the flight environment.

#### Course ID

S12081

#### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

#### Billing Hours

Billing  
Hours  
2

## 214 - Parenteral Processes

### Overview

#### Course Description

This course covers quality assurance for injectable products. Emphasis is placed on environmental monitoring and sterility, pyrogen, particulate, and package integrity testing. Upon completion, students should be able to demonstrate competence in these test procedures.

#### Course ID

S21438

#### Credit Hours

Credit  
Hours  
3  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

#### Billing Hours

Billing  
Hours  
3  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

## 215 - Flight Safety

### Overview

#### Course Description

This course covers the basic procedures and practices of aircraft accident prevention, accident investigation, and reporting. Topics include a comprehensive review of federal regulations pertinent to aviation safety and analyses of actual aviation accident cases and their causes. Upon completion, students should be able to demonstrate an understanding and respect for specific personal factors such as attitude, motivation, and skill related to flight safety.

#### Course ID

S12048

#### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

#### Billing Hours

Billing  
Hours  
3  
Min:  
3

## 216 - Engines & Systems

### Overview

#### Course Description

This course introduces piston and turbine aircraft engines and associated systems. Topics include aircraft hydraulic, pneumatic, electrical, air conditioning, and pressurization systems along with the theory of engine operations, including power and thrust computations. Upon completion, students should be able to apply principles of engine and systems operation.

#### Course ID

S11950

#### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 2               | 2             |

#### Billing Hours

Billing  
Hours  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

## 217 - Air Transportation

### Overview

#### Course Description

This course covers the development and present status of the air transportation system. Topics include federal legislation, characteristics and classification of air carriers, development of the air traffic control system, and the organization and function of the FAA. Upon completion, students should be able to relate the knowledge acquired to career development.

#### Course ID

S12079

#### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

#### Billing Hours

Billing  
Hours  
3

## 218 - Human Factors in Aviation

### Overview

#### Course Description

This course analyzes interpersonal relationships in the cockpit and related psychological factors that affect pilot performance and efficiency during flight operations. Topics include cockpit management, judgment, aircraft and flight crew coordination and control, physiological factors, responsibility, and decision-making capabilities. Upon completion, students should be able to apply work-proven routines to stress management, crew responsibility, and the team concept in the cockpit.

#### Course ID

S11988

#### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

#### Billing Hours

Billing  
Hours  
2

## 220 - Airport Management

### Overview

#### Course Description

This course examines the major functions of airport management and the concepts underlying airport planning and construction. Topics include forecasting volumes and airport size and design, including master planning, location requirements, site selection, runway configuration, zoning laws, and other considerations. Upon completion, students should be able to demonstrate basic airport management skills including an understanding of the socioeconomic effect of airports on the community.

#### Course ID

S10702

#### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

#### Billing Hours

Billing  
Hours  
2



## 222 - Professional Interactions

### Overview

#### Course Description

This course is designed to assist in the development of effective interpersonal skills in the physical therapist assistant setting. Topics include reactions to disability, the grieving process, methods of communication, motivation, health promotion, disease prevention, and aging. Upon completion, students should be able to discuss and demonstrate methods for achieving effective interaction with patients, families, the public, and other health care providers.

#### Course ID

S10046

#### Credit Hours

Credit  
Hours  
1  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

#### Billing Hours

Billing  
Hours  
1  
Min:  
2

## 228 - Pharmaceutical Issues

### Overview

#### Course Description

This course provides a forum for discussion of current pharmaceutical topics. Emphasis is placed on events, news, regulations, and technology in pharmaceutical manufacturing. Upon completion, students should be able to demonstrate an understanding of the dynamic nature of the pharmaceutical industry.

#### Course ID

S21441

#### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

#### Billing Hours

Billing  
Hours  
1  
Min:  
1

# 240 - Physical Therapy Procedures IV

## Overview

### Course Description

This course covers normal development, adult and pediatric/CNS dysfunction, spinal cord injuries, amputee rehabilitation techniques, and cardiopulmonary rehabilitation. Topics include neurology review, selected rehabilitation techniques, ADL and functional training, prosthetic and orthotic training, and environmental access. Upon completion, students should be able to demonstrate safe and correct application of selected rehabilitation techniques for neurological dysfunction, cardiopulmonary conditions, and amputations.

### Course ID

S24047

### Credit Hours

Credit  
Hours  
5

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
5

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

# 252 - Geriatrics for the PTA

## Overview

### Course Description

This course is designed to provide more in-depth knowledge of physical therapy care for the geriatric individual. Topics include health promotion, wellness programs, and medical problems specific to the elderly. Upon completion, students should be able to discuss and describe special problems and programs for the elderly.

### Course ID

S13205

### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
2

## 254 - Pediatrics for the PTA

### Overview

#### Course Description

This course provides an in-depth study of pediatric dysfunction and rehabilitation techniques. Topics include severe and profound attention deficit disorder, sensory integration, and rehabilitation in the school setting. Upon completion, students should be able to discuss selected pediatric dysfunctions and demonstrate specialized rehabilitation techniques.

#### Course ID

S13179

#### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

#### Billing Hours

Billin  
g  
Hour  
s  
Min:  
1

## 260 - Adv. Pta Clinical Ed.

### Overview

#### Course Description

This course provides full-time clinical affiliations for planned learning experiences and practice under supervision. Emphasis is placed on reinforcement of learned skills in direct patient care, communications, and professional behaviors. Upon completion, students should be able to demonstrate satisfactory performance as an entry-level physical therapist assistant and as a member of the physical therapy team.

#### Course ID

S16525

#### Credit Hours

Credi  
t  
Hour  
s  
Min:  
10

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact        |            |
| Hours          | Load       |
| 30             | 30         |

#### Billing Hours

Billin  
g  
Hour  
s  
Min:  
10

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take One Set: Set 1: PTA-180 Set 2: PTA-182 and PTA-210

Take 1 group; # Take PTA-180; # Take PTA-182

PTA-210;

## 270 - PTA Topics

### Overview

#### Course Description

This course covers the physical therapist assistant profession in preparation for the state licensure exam. Topics include developing time management skills and practicing for the competence examinations. Upon completion, students should be able to identify individual academic strengths and weaknesses and utilize this information to continue self-study for the licensure exam.

#### Course ID

S11481

#### Credit Hours

Credit  
Hours  
1

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 1               | 1             |

#### Billing Hours

Billing  
Hours  
1

## ACA122 - College Transfer Success

### Overview

#### Course Description

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions.

#### Course ID

S25621

#### Credit Hours

Credit  
Hours  
1

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

#### Billing Hours

Billing  
Hours  
1

# ACC120 - Principles of Financial Accounting

## Overview

### Course 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.

### Course ID

S20278

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# ACC121 - Principles of Managerial Accounting

## Overview

### Course 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.

### Course ID

S20282

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

## Simple Requisites

### Local Prerequisite Grade Requirement

#### Type

Prerequisite

- Take ACC-120; minimum grade C
- Take ACC-120(S10290); Minimum grade C;

**State prerequisite**

**Type**  
Prerequisite

Take ACC-120

Take ACC-120(S10290);

# ACC122 - Principles of Financial Accounting II

## Overview

### Course 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.

### Course ID

S20286

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

**Prerequisite**

**Type**  
Prerequisite

Take ACC-120 Minimum grade C

Take ACC-120(S10290); Minimum grade C;

State prerequisite

Type

Prerequisite

Take ACC-120

Take ACC-120(S20278);

# ACC129 - Individual Income Taxes

## Overview

### Course 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.

### Course ID

S20283

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

Prerequisite

Type

Prerequisite

Take ACC-120

Take ACC-120(S10290);



# ACC130 - Business Income Taxes

## Overview

### Course Description

This course introduces the relevant laws governing business and fiduciary income taxes. Topics include tax law relating to business organizations, electronic research and methodologies, and the use of technology for the preparation of business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various business tax forms.

**Course ID**  
S20277

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

| Local Requisite |              |
|-----------------|--------------|
| Type            | Prerequisite |
| Take ACC-120;   |              |

Take ACC-120(S20278);

# ACC132 - NC Business Taxes

## Overview

### Course Description

This course introduces the relevant laws governing North Carolina taxes as they apply to business. Topics include sales taxes, income taxes for business entities, payroll taxes, unemployment taxes, and other taxes pertaining to the State of North Carolina. Upon completion, students should be able to maintain a company's records to comply with the laws governing North Carolina business taxes.

**Course ID**  
S24971

### Credit Hours

**Credit Hours**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

**Billing Hours**  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

Take ACC-115(S12924) or ACC-120(S10290);

# ACC140 - Payroll Accounting

## Overview

### Course 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.

### Course ID

S24972

### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take One: ACC-115 or ACC-120

Take ACC-115(S12924) or ACC-120(S10290);

# ACC149 - Introduction to Accounting Spreadsheets

## Overview

### Course Description

This course provides a working knowledge of computer spreadsheets and their use in accounting. Topics include pre-programmed problems, model-building problems, beginning-level macros, graphics, and what-if analysis enhancements of template problems. Upon completion, students should be able to use a computer spreadsheet to complete many of the tasks required in accounting.

### Course ID

S24973

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| State prerequisite           |              |
|------------------------------|--------------|
| Type                         | Prerequisite |
| Take One: ACC-115 or ACC-120 |              |

# ACC150 - Accounting Software Applications

## Overview

### Course 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.

### Course ID

S24974

### Credit Hours

Credit Hours  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing Hours  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| State prerequisite                       |
|------------------------------------------|
| Type                                     |
| Prerequisite                             |
| Take One: ACC-115 or ACC-120             |
| Take ACC-115(S12924) or ACC-120(S10290); |

# ACC175 - Hotel and Restaurant Accounting

## Overview

### Course Description

This course covers generally accepted accounting principles and the uniform system of accounts for small hotels and motels of the American Hotel and Motel Association. Emphasis is placed on the accounting cycle, analysis of financial statements, and payroll procedures including treatment of tips. Upon completion, students should be able to demonstrate competence in the accounting principles and procedures used in hotels and restaurants.

### Course ID

S11585

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# ACC180 - Practices in Bookkeeping

## Overview

### Course 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.

### Course ID

S20288

### Credit Hours

Credit Hours  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
3

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type                  |
| Prerequisite          |
| Take ACC-120          |
| Take ACC-120(S20278); |

# ACC215 - Ethics in Accounting

## Overview

### Course Description

This course introduces students to professional codes of conduct and ethics adopted by professional associations and state licensing boards for accountants, auditors, and fraud examiners. Topics include research and discussion of selected historical and contemporary ethical cases and issues as they relate to accounting and business. Upon completion, students should be able to apply codes, interpret facts and circumstances, as they relate to accounting firms and business activities.

### Course ID

S20289

### Credit Hours

Credit Hours  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
3

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |
| Take ACC-121       |

# ACC220 - Intermediate Accounting I

## Overview

### Course 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.

### Course ID

S20836

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take ACC-120

Take ACC-120(S20278);

# ACC221 - Intermediate Accounting II

## Overview

### Course Description

This course is a continuation of ACC 220. Emphasis is placed on special problems which may include leases, bonds, investments, ratio analyses, present value applications, accounting changes, and corrections. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

### Course ID

S10687

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

State prerequisite  
Type  
Prerequisite

Take ACC-220



# ACC225 - Cost Accounting

## Overview

### Course Description

This course introduces the nature and purposes of cost accounting as an information system for planning and control. Topics include direct materials, direct labor, factory overhead, process, job order, and standard cost systems. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

### Course ID

S10695

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| State prerequisite    |              |
|-----------------------|--------------|
| Type                  | Prerequisite |
| Take ACC-121          |              |
| Take ACC-121(S10328); |              |

# ACC267 - Fraud Examination

## Overview

### Course Description

This course is an introduction to the investigation techniques used to discover fraudulent activities. Emphasis is placed on the techniques for the detection, deterrence and prevention of the major types of occupational and management frauds. Upon completion, students should be able to examine relevant fraud cases and apply critical thinking and technology skills used in fraud examination.

### Course ID

S24965

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| State prerequisite    |              |
|-----------------------|--------------|
| Type                  | Prerequisite |
| Take ACC-120          |              |
| Take ACC-120(S20278); |              |

# ACC269 - Auditing & Assurance Services

## Overview

### Course Description

This course introduces selected topics pertaining to the objectives, theory and practices in engagements providing auditing and other assurance services. Topics include planning, conducting and reporting, with emphasis on the related professional ethics and standards. Upon completion, students should be able to demonstrate an understanding of the types of professional services, the related professional standards, and engagement methodology.

### Course ID

S20271

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take ACC-220       |

Take ACC-220(S10646);

# AGR139 - Introduction to Sustainable Agriculture

## Overview

### Course 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.

### Course ID

S23337

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hours  
3

# AHR110 - Introduction to Refrigeration

## Overview

### Course 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.

### Course ID

S23419

### Credit Hours

Credit  
Hours  
5  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
5  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

#### Local Corequisites

Type  
Corequisite

Take AHR-111

Take AHR-111(S23420);

# AHR111 - HVACR Electricity

## Overview

### Course Description

This course introduces electricity as it applies to HVACR equipment. Emphasis is placed on power sources, interaction of electrical components, wiring of simple circuits, and the use of electrical test equipment. Upon completion, students should be able to demonstrate good wiring practices and the ability to read simple wiring diagrams.

**Course ID**  
S23420

**Credit Hours**

**Credit Hour  
s**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

**Billing Hours**

**Billing Hour  
s**  
**Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

| Local Corequisite     |  |
|-----------------------|--|
| Type                  |  |
| Corequisite           |  |
| Take AHR-110          |  |
| Take AHR-110(S23419); |  |

# AHR112 - Heating Technology

## Overview

### Course Description

This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems and describe the major components of a heating system.

**Course ID**  
S23421

**Credit Hours**

**Credit Hour  
s**  
**Min:**  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

**Billing Hours**

**Billing Hour  
s**  
**Min:**  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 4              | Load 4   |

### Simple Requisites

| Local Corequisite |  |
|-------------------|--|
| Type              |  |
| Corequisite       |  |
| Take AHR-110      |  |

# AHR113 - Comfort Cooling

## Overview

### Course Description

This course covers the installation procedures, system operations, and maintenance of residential and light commercial comfort cooling systems. Topics include terminology, component operation, and testing and repair of equipment used to control and produce assured comfort levels. Upon completion, students should be able to use psychrometrics, manufacturer specifications, and test instruments to determine proper system operation.

**Course ID**  
S23422

### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

| Prerequisite |
|--------------|
| Type         |
| Prerequisite |
| Take AHR-110 |

# AHR114 - Heat Pump Technology

## Overview

### Course Description

This course covers the principles of air source and water source heat pumps. Emphasis is placed on safety, modes of operation, defrost systems, refrigerant charging, and system performance. Upon completion, students should be able to understand and analyze system performance and perform routine service procedures.

**Course ID**  
S23423

### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

| State prerequisite                       |
|------------------------------------------|
| Type                                     |
| Prerequisite                             |
| Take One: AHR-110 or AHR-113             |
| Take AHR-110(S23419) or AHR-113(S23422); |

# AHR115 - Refrigeration Systems

## Overview

### Course Description

This course introduces refrigeration systems and applications. Topics include defrost methods, safety and operational control, refrigerant piping, refrigerant recovery and charging, and leak testing. Upon completion, students should be able to assist in installing and testing refrigeration systems and perform simple repairs.

### Course ID

S14137

### Credit Hours

Credit Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

Billing Hours  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Simple Requisites

| State prerequisite    |              |
|-----------------------|--------------|
| Type                  | Prerequisite |
| Take AHR-110          |              |
| Take AHR-110(S23419); |              |

# AHR130 - HVAC Controls

## Overview

### Course 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.

### Course ID

S23273

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

### Simple Requisites

| State prerequisite                     |              |
|----------------------------------------|--------------|
| Type                                   | Prerequisite |
| Take One: AHR-111, ELC-111, or ELC-112 |              |
| Take AHR-111(S14148) ELC-111 or        |              |

# AHR133 - HVAC Servicing

## Overview

### Course Description

The course covers the maintenance and servicing of HVAC equipment. Topics include testing, adjusting, maintaining, and troubleshooting HVAC equipment and record keeping. Upon completion, students should be able to adjust, maintain, and service HVAC equipment.

### Course ID

S13769

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 6              | Load 6   |

### Simple Requisites

|                                          |  |
|------------------------------------------|--|
| State concurrent or previous courses     |  |
| Type                                     |  |
| Corequisite                              |  |
| Take One: AHR-112 OR AHR-113             |  |
| Take AHR-112(S23421) or AHR-113(S23422); |  |

# AHR140 - All-Weather Systems

## Overview

### Course Description

This course covers the principles of combination heating and cooling systems including gas-electric, all-electric, and oil-electric systems. Topics include PTAC's and package and split-system units. Upon completion, students should be able to understand systems performance and perform routine maintenance procedures.

### Course ID

S11450

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

|                                          |  |
|------------------------------------------|--|
| State prerequisite                       |  |
| Type                                     |  |
| Prerequisite                             |  |
| Take One: AHR-112 or AHR-113             |  |
| Take AHR-112(S14102) or AHR-113(S14131); |  |

# AHR210 - Residential Building Code

## Overview

### Course 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.

### Course ID

S10349

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Simple Requisites

| Local Corequisite     |
|-----------------------|
| Type                  |
| Corequisite           |
| Take AHR-110          |
| Take AHR-110(S23419); |

# AHR211 - Residential System Design

## Overview

### Course Description

This course introduces the principles and concepts of conventional residential heating and cooling system design. Topics include heating and cooling load estimating, basic psychrometrics, equipment selection, duct system selection, and system design. Upon completion, students should be able to design a basic residential heating and cooling system.

### Course ID

S23445

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 2         | 2     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |



# AHR215 - Commercial HVAC Controls

## Overview

### Course Description

This course introduces HVAC control systems used in commercial applications. Topics include electric/electronic control systems, pneumatic control systems, DDC temperature sensors, humidity sensors, pressure sensors, wiring, controllers, actuators, and controlled devices. Upon completion, students should be able to verify or correct the performance of common control systems with regard to sequence of operation and safety.

### Course ID

S22586

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 1               | 1             |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take One: AHR-111, ELC-111, or ELC 112  
Take AHR-111(S23420) ELC-111 or  
ELC-112(S23481);

# AHR245 - Chiller Systems

## Overview

### Course Description

This course introduces the fundamentals of liquid chilling equipment. Topics include characteristics of water, principles of water chilling, the chiller, the refrigerant, water and piping circuits, freeze prevention, purging, and equipment flexibility. Upon completion, students should be able to describe the components, controls, and overall operation of liquid chilling equipment and perform basic maintenance tasks.

**Course ID**  
S12854

### Credit Hours

**Credit Hours**  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

**Billing Hours**  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Simple Requisites

|                             |
|-----------------------------|
| <b>State prerequisite</b>   |
| <b>Type</b><br>Prerequisite |
| Take AHR-110                |

# ALT120 - Renewable Energy Technologies

## Overview

### Course Description

This course provides an introduction to multiple technologies that allow for the production and conservation of energy from renewable sources. Topics include hydro-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.

**Course ID**  
S22049

### Credit Hours

**Credit Hours**  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# ALT250 - Thermal Systems

## Overview

### Course 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.

**Course ID**  
S22481

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# ANT210 - General Anthropology

## Overview

### Course 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.

**Course ID**  
S13262

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

### Billing Hours

**Billing Hours**  
3

# ANT220 - Cultural Anthropology

## Overview

### Course 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.

### Course ID

S10526

### Credit Hours

Credit Hours  
3

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
3

# ANT221 - Comparative Cultures

## Overview

### Course Description

This course provides an ethnographic survey of societies around the world covering their distinctive cultural characteristics and how these relate to cultural change. Emphasis is placed on the similarities and differences in social institutions such as family, economics, politics, education, and religion. Upon completion, students should be able to demonstrate knowledge of a variety of cultural adaptive strategies.

### Course ID

S10536

### Credit Hours

Credit Hours  
3

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
3

# ANT230 - Physical Anthropology

## Overview

### Course Description

This course introduces the scientific study of human evolution and adaptation. Emphasis is placed on evolutionary theory, population genetics, biocultural adaptation and human variation, as well as non-human primate evolution, morphology, and behavior. Upon completion, students should be able to demonstrate an understanding of the biological and cultural processes which have resulted in the formation of the human species.

### Course ID

S11533

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

# ANT230A - Physical Anthropology Lab

## Overview

### Course Description

This course provides laboratory work that reinforces the material presented in ANT 230. Emphasis is placed on laboratory exercises which may include fossil identification, genetic analysis, skeletal comparisons, forensics, computer simulations, and field observations. Upon completion, students should be able to demonstrate an understanding of the analytical skills employed by anthropologists in the study of primate evolution and variation.

### Course ID

S12060

### Credit Hours

Credit  
Hours  
1

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

### Billing Hours

Billing  
Hours  
1

## Simple Requisites

State concurrent or previous courses

### Type

Corequisite

Take ANT-230

Take ANT-230;

## ANT240 - Archaeology

### Overview

#### Course Description

This course introduces the scientific study of the unwritten record of the human past. Emphasis is placed on the process of human cultural evolution as revealed through archaeological methods of excavation and interpretation. Upon completion, students should be able to demonstrate an understanding of how archaeologists reconstruct the past and describe the variety of past human cultures.

#### Course ID

S10965

#### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

#### Billing Hours

Billing  
Hours  
3  
Min:  
3

## ANT240A - Archaeology Field Lab

### Overview

#### Course Description

This course provides practical applications of archaeological methods. Emphasis is placed on basic archaeological methods and techniques required in site surveys, site classification, excavation, recording, processing, presentation, chronometry, and analysis of materials. Upon completion, students should be able to participate in applying archaeological methods and techniques to the excavation of a specific site.

#### Course ID

S22352

#### Credit Hours

Credit  
Hours  
2  
Min:  
2

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 4        | 4    |

#### Billing Hours

Billing  
Hours  
2  
Min:  
2

### Simple Requisites

State concurrent or previous courses

Type  
Corequisite

- Take ANT-240
- Take ANT-240;

# ANT245 - World Prehistory

## Overview

### Course Description

This course provides an introduction to the prehistory of the Old and New world. Emphasis is placed on archaeological evidence from origins of human culture to the beginning of recorded history. Upon completion, students should be able to demonstrate knowledge of the variability of ancient human societies and the development of agriculture and urbanism.

**Course ID**  
S21935

**Credit Hours**

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

**Billing Hours**

**Billing Hours**  
3

# ARC111 - Introduction to Architectural Technology

## Overview

### Course 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.

**Course ID**  
S11683

**Credit Hours**

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

**Billing Hours**

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 6              | 6        |

# ARC112 - Construction Materials & Methods

## Overview

### Course 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.

### Course ID

S23271

### Credit Hours

Credit Hours  
3  
Classroom Hours  
3  
Contact Hours  
3  
Load  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
2  
Lab/Shop Hours  
2  
Contact Hours  
2  
Load  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# ARC113 - Residential Architectural Technology

## Overview

### Course Description

This course covers intermediate residential working drawings. Topics include residential plans, elevations, sections, details, schedules, and other related topics. Upon completion, students should be able to prepare a set of residential working drawings that are within accepted architectural standards.

### Course ID

S11635

### Credit Hours

Credit Hours  
3  
Classroom Hours  
3  
Contact Hours  
3  
Load  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

Billing Hours  
6  
Lab/Shop Hours  
6  
Contact Hours  
6  
Load  
6

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 6              | 6        |

### Simple Requisites

#### Prerequisite

#### Type

Prerequisite

Take ARC-114 ARC-114A

Take ARC-114(S10248) ARC-114A;



**State prerequisite**

**Type**  
Prerequisite

Take ARC-111

Take ARC-111(S11683);

**State concurrent or previous courses**

**Type**  
Corequisite

Take ARC-112

Take ARC-112(S11752);

# ARC114 - Architectural CAD

## Overview

### Course 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.

### Course ID

S10248

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

## Simple Requisites

**Local Recommended Concurrent Or Previous Courses**

**Type**  
Corequisite

Take ARC-114A

Take ARC-114A;

# ARC114A - Architectural CAD Lab

## Overview

### Course Description

This course provides a laboratory setting to enhance architectural CAD skills. Emphasis is placed on further development of commands and system operation. Upon completion, students should be able to prepare and plot scaled architectural drawings.

### Course ID

S11284

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type<br>Corequisite                  |
| Take ARC-114                         |
| Take ARC-114(S10248);                |

# ARC132 - Specifications & Contracts

## Overview

### Course Description

This course covers the development of written specifications and the implications of different contractual arrangements. Topics include specification development, contracts, bidding material research, and agency responsibilities. Upon completion, students should be able to write a specification section and demonstrate the ability to interpret contractual responsibilities.

### Course ID

S12627

### Credit Hours

Credit  
Hours  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hours  
2

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take ARC-112          |
| Take ARC-112(S11752); |

# ARC211 - Light Construction Technology

## Overview

### Course Description

This course covers working drawings for light construction. Topics include plans, elevations, sections, and details; schedules; and other related topics. Upon completion, students should be able to prepare a set of working drawings which are within accepted architectural standards.

### Course ID

S13934

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 6              | Load 6   |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take ARC-111  
Take ARC-111(S11683);

State concurrent or previous courses

Type  
Corequisite

- Take ARC-112  
Take ARC-112(S11752);

# ARC213 - Design Project

## Overview

### Course Description

This course provides the opportunity to design and prepare a set of contract documents within an architectural setting. Topics include schematic design, design development, construction documents, and other related topics. Upon completion, students should be able to prepare a set of commercial contract documents.

### Course ID

S10726

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

## Simple Requisites

### Local Prerequisite

#### Type

Prerequisite

Take ARC-111 ARC-112 ARC-114 ARC-114A  
ARC-211

Take ARC-111(S11683) ARC-112(S23271)  
ARC-114(S10248) ARC-114A ARC-211(S13934);

### State prerequisite

#### Type

Prerequisite

Take All: ARC-111, ARC-112, and ARC-114

Take ARC-111(S11683) ARC-112(S11752)  
ARC-114(S10248);

# ARC214 - Architectural Statics

## Overview

### Course Description

This course covers the concepts of elementary statics as applied to architecture. Topics include forces, resultants, and types of force system; equations of equilibrium; reactions of simple architectural structures; internal forces in architectural roof trusses; frames and beams; centroids and moments of inertia as applied to architecture. Upon completion, students should be able to solve problems which require the ability to analyze systems of forces in static equilibrium as applied to architectural forms.

### Course ID

S10740

### Credit Hours

Credit  
Hours  
3

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| State prerequisite                      |
|-----------------------------------------|
| Type                                    |
| Prerequisite                            |
| Take All: ARC-111, ARC-112, and MAT-121 |
| Take ARC-111(S11683) ARC-112(S11752)    |

# ARC220 - Advanced Architectural CAD

## Overview

### Course Description

This course provides file management, productivity, and CAD customization skills. Emphasis is placed on developing advanced proficiency techniques. Upon completion, students should be able to create prototype drawings and symbol libraries, compose sheets with multiple details, and use advanced drawing and editing commands.

### Course ID

S13375

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| Local Prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |
| Take ARC-114A      |  |
| Take ARC-114A;     |  |

| State prerequisite    |  |
|-----------------------|--|
| Type                  |  |
| Prerequisite          |  |
| Take ARC-114          |  |
| Take ARC-114(S10248); |  |

# ARC225 - Architectural Building Information Modeling I

## Overview

### Course Description

This course is an introduction to the fundamentals of Building Information Modeling (BIM) as a construction documentation system. Topics include basic parametric modeling, creating new types and families of components, and using 3D models to create design drawings. Upon completion, students should be able to use BIM software to create, edit, and print rudimentary architectural 3D computer models.

### Course ID

S23627

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| Local Recommended Concurrent Or Previous Courses |             |
|--------------------------------------------------|-------------|
| Type                                             | Corequisite |

|                |
|----------------|
| Take ARC-225A  |
| Take ARC-225A; |

# ARC225A - Architectural Building Information Modeling I Lab

## Overview

### Course Description

This course provides a laboratory setting to enhance architectural BIM skills. Emphasis is placed on further development of basic parametric modeling, creating new types and families of components. Upon completion, students should be able to use BIM software to create, edit, and print rudimentary architectural 3D computer models.

**Course ID**  
S23629

**Credit Hours**

**Credit Hours**  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

**Billing Hours**

**Billing Hours**  
1

### Simple Requisites

| State concurrent or previous courses |  |
|--------------------------------------|--|
| Type                                 |  |
| Corequisite                          |  |
| Take ARC-225                         |  |
| Take ARC-225;                        |  |

# ARC226 - Architectural Building Information Modeling II

## Overview

### Course Description

This course covers advanced concepts of Building Information Modeling (BIM) including complex drawing generation and inter-disciplinary collaboration. Topics include advanced parametric modeling and model analysis, inter-disciplinary coordination, design web format models, material take-off, schedules, and rendering. Upon completion, students should be able to apply BIM software to create full 3D project models and convert them to scaled working or presentation drawings.

**Course ID**  
S23630

**Credit Hours**

**Credit Hours**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

**Billing Hours**

**Billing Hours**  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| State prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |



Take ARC-225

Take ARC-225;

# ARC226A - Architectural Building Information Modeling II Lab

## Overview

### Course Description

This course provides a laboratory setting to enhance advanced architectural BIM skills. Emphasis is placed on further development of advanced parametric modeling and model analysis, inter-disciplinary coordination, design web format models, material take-off, schedules, and rendering. Upon completion, students should be able to apply BIM software to create full 3D project models and convert them to scaled working or presentation drawings.

### Course ID

S23631

### Credit Hours

Credit Hours  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Billing Hours

Billing Hours  
1

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

|               |
|---------------|
| Take ARC-225  |
| Take ARC-225; |

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type                                 |
| Corequisite                          |
| Take ARC-226                         |
| Take ARC-226;                        |

# ARC230 - Environmental Systems

## Overview

### Course Description

This course introduces plumbing, mechanical (HVAC), and electrical systems for the architectural environment. Topics include basic plumbing, mechanical, and electrical systems for residential and/or commercial buildings with an introduction to selected code requirements. Upon completion, students should be able to develop schematic drawings for plumbing, mechanical, and electrical systems and perform related calculations.

### Course ID

S23949

### Credit Hours

Credit Hours  
4

|               |                 |      |       |
|---------------|-----------------|------|-------|
| Name          | Classroom Hours | Code | CLASS |
| Contact Hours | 3               | Load | 3     |

### Billing Hours

Billing Hours  
4

|               |                |      |     |
|---------------|----------------|------|-----|
| Name          | Lab/Shop Hours | Code | LAB |
| Contact Hours | 3              | Load | 3   |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take One Set: Set 1: ARC-111 and MAT-121 Set 2: ARC-111 and MAT-171

Take 1 group; # Take ARC-111(S11683) MAT-121(S23927); # Take ARC-111(S11683) MAT-171(S23934);

# ARC231 - Architectural Presentations

## Overview

### Course Description

This course introduces architectural presentation techniques. Topics include perspective drawing, shadow projection, texturization, rendered plans, elevations, and other related topics. Upon completion, students should be able to present ideas graphically and do rendered presentation drawings.

### Course ID

S13888

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take ARC-111

Take ARC-111(S11683);

# ARC235 - Architectural Portfolio

## Overview

### Course Description

This course covers the methodology for the creation of an architectural portfolio. Topics include preparation of marketing materials and a presentation strategy using conventional and/or digital design media. Upon completion, students should be able to produce an architectural portfolio of selected projects.

### Course ID

S13879

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# ARC250 - Survey of Architecture

## Overview

### Course Description

This course introduces the historical trends in architectural form. Topics include historical and current trends in architecture. Upon completion, students should be able to demonstrate an understanding of significant historical and current architectural styles.

### Course ID

S14229

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

# ART111 - Art Appreciation

## Overview

### Course 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.

**Course ID**  
S10139

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

# ART113 - Art Methods and Materials

## Overview

### Course Description

This course provides an overview of media and techniques. Emphasis is placed on exploration and manipulation of materials. Upon completion, students should be able to demonstrate familiarity with a variety of methods, materials, and processes.

**Course ID**  
S24618

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 6              | 6           |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

# ART114 - Art History Survey I

## Overview

RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-025;

### Course 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.

### Course ID

S10200

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
Min:  
3

### Simple Requisites

| Local Prerequisite                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------|
| Type Prerequisite                                                                                                           |
| Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, or ENG-025 |
| Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take |

# ART115 - Art History Survey II

## Overview

BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

### Course 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.

### Course ID

S10149

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

#### Local English Prerequisite

#### Type

Prerequisite

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025  
  
Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take

# ART116 - Survey of American Art

## Overview

### Course Description

This course covers the development of American art forms from colonial times to the present. Emphasis is placed on architecture, painting, sculpture, graphics, and the decorative arts. Upon completion, students should be able to demonstrate understanding of the history of the American creative experience.

### Course ID

S10174

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

### Simple Requisites

#### Local English Prerequisites

##### Type

Prerequisite

Take DRE-098, ENG-002(with a minimum grade of P2), BSP-4002 (with a minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025



# ART117 - Non-Western Art History

## Overview

### Course Description

This course introduces non-Western cultural perspectives. Emphasis is placed on, but not limited to, African, Oriental, and Oceanic art forms throughout history. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of non-Western social and cultural development.

### Course ID

S10125

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
3

### Simple Requisites

| Local English Prerequisite                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------|
| Type                                                                                                                            |
| Prerequisite                                                                                                                    |
| Take DRE-098, ENG-002(with a minimum grade of P2), BSP-4002 (with a minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or |

### ENG-025

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

# ART118 - Art by Women

## Overview

### Course 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.

### Course ID

S22465

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
3

# ART121 - Two-Dimensional Design

## Overview

### Course 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.

### Course ID

S23014

### Credit Hours

Credit Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 6              | Load 6   |

### Billing Hours

Billing Hours  
3

# ART122 - Three-Dimensional Design

## Overview

### Course Description

This course introduces basic studio problems in three-dimensional visual design. Emphasis is placed on the structural elements and organizational principles as applied to mass and space. Upon completion, students should be able to apply three-dimensional design concepts.

### Course ID

S23015

### Credit Hours

Credit Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 6              | Load 6   |

### Billing Hours

Billing Hours  
3

# ART130 - Basic Drawing

## Overview

### Course Description

This course introduces basic drawing techniques and is designed to increase observation skills. Emphasis is placed on the fundamentals of drawing. Upon completion, students should be able to demonstrate various methods and their application to representational imagery.

### Course ID

S10853

### Credit Hours

Credit  
Hours  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Billing Hours

Billing  
Hours  
2

# ART131 - Drawing I

## Overview

### Course 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.

### Course ID

S10812

### Credit Hours

Credit  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3

# ART132 - Drawing II

## Overview

### Course 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.

### Course ID

S10831

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |
| Take ART-131       |              |
| Take ART-131;      |              |

# ART135 - Figure Drawing I

## Overview

### Course Description

This course introduces rendering the human figure with various drawing materials. Emphasis is placed on the use of the visual elements, anatomy, and proportion in the representation of the draped and undraped figure. Upon completion, students should be able to demonstrate competence in drawing the human figure.

### Course ID

S16219

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |
| Take ART-131       |              |
| Take ART-131;      |              |

# ART140 - Basic Painting

## Overview

### Course 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.

### Course ID

S13065

### Credit Hours

Credit  
Hours  
Minimum:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Billing Hours

Billing  
Hours  
Minimum:  
2

# ART170 - The Business of Art

## Overview

### Course Description

This course introduces artists to the skills and knowledge needed to develop their artistic practice into a small business. Emphasis is placed on the skills need to turn an artistic practice into a small business, such as marketing, image documentation, taxes, incorporating, and the logistics of working with galleries or participating in craft shows. Upon completion, students should be able to document their work and advertise it in a professional fashion, file taxes as a sole proprietor, understand the legalities of an LLC, and start to monetize their artistic practice in a variety of settings.

### Course ID

S25727

### Credit Hours

Credit  
Hours  
Minimum:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
Minimum:  
3

# ART171 - Digital Design I

## Overview

### Course Description

This course is designed to introduce students to the elements and principles of design through the use of digital software. Emphasis is placed on developing composition and design skills using vector, raster, and time-based media. Upon completion, students should be able to identify and use tools in digital software, understand and utilize digital and artistic vocabulary, and employ the principles and elements of design to create artwork using digital means.

**Course ID**  
S25231

### Credit Hours

**Credit Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

**Billing Hours**  
3

# ART212 - Gallery Assistantship I

## Overview

### Course Description

This course covers the practical application of display techniques. Emphasis is placed on preparation of artwork for installation, hardware systems, and exhibition graphics. Upon completion, students should be able to demonstrate basic gallery exhibition skills.

**Course ID**  
S24621

### Credit Hours

**Credit Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

**Billing Hours**  
3

# ART213 - Gallery Assistantship II

## Overview

### Course Description

This course provides additional experience in display techniques. Emphasis is placed on preparation of artwork for exhibition, alternative methods of installation, hardware systems, and exhibition graphics. Upon completion, students should be able to demonstrate independent decision-making and exhibition expertise.

### Course ID

S24619

### Credit Hours

Credit  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| State prerequisite    |              |
|-----------------------|--------------|
| Type                  | Prerequisite |
| Take ART-212          |              |
| Take ART-212(S10887); |              |

# ART214 - Portfolio and Resume Overview

## Course Description

This course covers resume writing, interview skills, and the preparation and presentation of an art portfolio. Emphasis is placed on the preparation of a portfolio of original artwork, the preparation of a photographic portfolio, approaches to resume writing, and interview techniques. Upon completion, students should be able to photograph and present a digital portfolio and write an effective resume.

### Course ID

S25044

### Credit Hours

Credit  
Hours  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Billing Hours

Billing  
Hours  
1

# ART215 - Visual Art Portfolio

## Overview

### Course Description

This course covers the organization of a comprehensive body of work designed to showcase the visual artist's competencies in selected media and is intended for college transfer or professional advancement. Emphasis includes preparation for gallery exhibition, creation of a digital portfolio, and development of materials associated with best practices for showcasing artistic works, skills, and experience. Upon completion, students should be able to display a professional arrangement of work designed for entry into an advanced visual arts program, application for employment, or presentation to juried gallery exhibitions.

### Course ID

S25161

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# ART222 - Wood Design I

## Overview

### Course Description

This course introduces the historical and contemporary design concepts and their application to the construction of functional and sculptural wood forms. Emphasis is placed on the mastery of hand and power tools. Upon completion, students should be able to demonstrate appropriate use of tools to create unique designs.

### Course ID

S12099

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:  
3



# ART231 - Printmaking I

## Overview

### Course Description

This course introduces printmaking: its history, development techniques, and processes. Emphasis is placed on basic applications with investigation into image source and development. Upon completion, students should be able to produce printed images utilizing a variety of methods.

### Course ID

S10482

### Credit Hours

Credit  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3

# ART232 - Printmaking II

## Overview

### Course Description

This course includes additional methods and printmaking processes. Emphasis is placed on the printed image as related to method, source, and concept. Upon completion, students should be able to produce expressive images utilizing both traditional and innovative methods.

### Course ID

S10421

### Credit Hours

Credit  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3

## Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take ART-231         |
| Take ART-231;        |

# ART235 - Figure Drawing II

## Overview

### Course Description

This course extends the study and rendering of the draped and undraped human figure. Emphasis is placed on the exploration of materials and approaches to drawing. Upon completion, students should be able to demonstrate creativity in the representation of the figure.

### Course ID

S10465

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take ART-135          |
| Take ART-135(S10806); |

# ART240 - Painting I

## Overview

### Course 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.

### Course ID

S11426

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing  
Hours  
3  
Min:

# ART241 - Painting II

## Overview

### Course 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.

### Course ID

S11518

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |
| Take ART-240       |              |
| Take ART-240;      |              |

# ART242 - Landscape Painting

## Overview

### Course Description

This course introduces and practices the skills and techniques of open-air painting. Emphasis is placed on techniques of painting summer foliage, skies, and mountains, and the elements of aerial perspective. Upon completion, students should be able to complete an open-air landscape painting employing brush, knife, scumbling, and glazing techniques.

### Course ID

S11451

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |
| Take ART-240       |              |
| Take ART-240;      |              |

# ART243 - Portrait Painting

## Overview

### Course Description

This course covers the portrait as subject matter by use of live models. Topics include composition, color mixing, and the history of portraiture. Upon completion, students should be able to demonstrate competence in the traditional approach to portrait painting.

### Course ID

S11500

### Credit Hours

Credit  
Hours  
3  
Minutes

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Minutes

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take ART-240       |
| Take ART-240;      |

# ART244 - Watercolor

## Overview

### Course Description

This course introduces basic methods and techniques used in watercolor. Emphasis is placed on application, materials, content, and individual expression. Upon completion, students should be able to demonstrate a variety of traditional and nontraditional concepts used in watercolor media.

### Course ID

S11425

### Credit Hours

Credit  
Hours  
3  
Minutes

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Minutes

# ART245 - Metals I

## Overview

### Course Description

This course introduces basic metal design in traditional and contemporary art forms using brass, copper, and silver. Emphasis is placed on designing and fabricating jewelry, small sculptures, and utilitarian objects. Upon completion, students should be able to design and produce small art objects.

### Course ID

S11515

### Credit Hours

Credit Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing Hours  
3

# ART246 - Metals II

## Overview

### Course Description

This course provides a continuation of metal design utilizing basic methods of casting and other processes. Emphasis is placed on individualized design. Upon completion, students should be able to design and produce expressive forms.

### Course ID

S11473

### Credit Hours

Credit Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing Hours  
3

## Simple Requisites

State prerequisite

Type

Prerequisite

Take ART-245

Take ART-245(S11515);

# ART247 - Jewelry I

## Overview

### Course Description

This course introduces a basic understanding of the design and production of jewelry. Emphasis is placed on concepts and techniques using metals and other materials. Upon completion, students should be able to demonstrate an ability to use appropriate methods to create unique jewelry.

### Course ID

S11479

### Credit Hours

Credit  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3

# ART248 - Jewelry II

## Overview

### Course Description

This course is a continuation of the skills learned in ART 247. Emphasis is placed on the creation of individual designs that utilize a variety of techniques such as casting, cloisonne, and plique-a-jour. Upon completion, students should be able to create jewelry which demonstrates originality.

### Course ID

S11436

### Credit Hours

Credit  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3

## Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take ART-247         |
| Take ART-247;        |

# ART250 - Surface Design: Textiles

## Overview

### Course Description

This course introduces the basic principles and elements of art as applied to textile surfaces. Emphasis is placed on direct, top-dyed processes that utilize both synthetic and natural dyes, and techniques such as batiking, stenciling, and stamping. Upon completion, students should be able to demonstrate a basic understanding of appropriate materials and techniques as they apply to original design on a variety of textile surfaces.

### Course ID

S11144

### Credit Hours

Credit  
Hours  
3

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

# ART251 - Weaving I

## Overview

### Course Description

This course provides a basic understanding of the design and production of constructed textiles. Emphasis is placed on traditional weaving techniques. Upon completion, students should be able to warp and dress the loom and use appropriate techniques for the creation of unique woven fabrics.

### Course ID

S11152

### Credit Hours

Credit  
Hours  
3

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

# ART252 - Weaving II

## Overview

### Course Description

This course furthers an exploration of creative design as it relates to manipulated fiber construction. Emphasis is placed on traditional and experimental methods. Upon completion, students should be able to create fiber constructions that utilize appropriate techniques for individual expressive designs.

### Course ID

S11125

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take ART-251         |
| Take ART-251;        |

# ART260 - Photography Appreciation

## Overview

### Course Description

This course introduces the origins and historical development of photography. Emphasis is placed on the study of composition and history of photography as an art form. Upon completion, students should be able to recognize and produce, using color transparencies, properly exposed, well-composed photographs.

### Course ID

S12736

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:



# ART261 - Photography I

## Overview

### Course Description

This course introduces photographic equipment, theory, and processes. Emphasis is placed on camera operation, composition, darkroom technique, and creative expression. Upon completion, students should be able to successfully expose, develop, and print a well-conceived composition.

### Course ID

S11371

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

# ART262 - Photography II

## Overview

### Course Description

This course introduces the creative manipulation of alternative photographic materials and processes such as toning, hand coloring, infrared, and multiple exposure. Emphasis is placed on personal vision and modes of seeing. Upon completion, students should be able to create properly exposed images using a variety of photographic materials and processes.

### Course ID

S11289

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

## Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take ART-261          |
| Take ART-261(S11371); |

# ART264 - Digital Photography I

## Overview

### Course Description

This course introduces digital photographic equipment, theory and processes. Emphasis is placed on camera operation, composition, computer photo manipulation and creative expression. Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition.

**Course ID**  
S24622

**Credit Hours**

**Credit Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

**Billing Hours**

**Billing Hours**  
3

# ART265 - Digital Photography II

## Overview

### Course Description

This course provides exploration of the concepts and processes of photo manipulation through complex composite images, special effects, color balancing and image/text integration. Emphasis is placed on creating a personal vision and style. Upon completion, students should be able to produce well-executed images using a variety of photographic and photo manipulative approaches.

**Course ID**  
S24620

**Credit Hours**

**Credit Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

**Billing Hours**

**Billing Hours**  
3

### Simple Requisites

**State prerequisite**

**Type**  
Prerequisite

- Take ART-264
- Take ART-264(S20392);

# ART266 - Videography I

## Overview

### Course Description

This course introduces various aspects of basic video production including concept development, scripting, camera operation, and post-production. Emphasis is placed on creative expression, camera handling, story boarding, and editing. Upon completion, students should be able to demonstrate a basic understanding of video camera operation and production techniques.

### Course ID

S11306

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# ART267 - Videography II

## Overview

### Course Description

This course is designed to provide a framework for the production of a long-term video project. Emphasis is placed on realization of the unique creative vision. Upon completion, students should be able to produce a thematically coherent, edited video with sound and titling.

### Course ID

S11402

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

## Simple Requisites

| State prerequisite    |  |
|-----------------------|--|
| Type                  |  |
| Prerequisite          |  |
| Take ART-266          |  |
| Take ART-266(S11306); |  |

# ART271 - Digital Design II

## Overview

### Course Description

This course includes advanced digital techniques in raster, vector, and time based media. Emphasis is based on creative application and integration of digital technologies. Upon completion, students should be able to demonstrate command of various digital systems to express their personal vision.

**Course ID**  
S25232

### Credit Hours

**Credit Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

| State prerequisite    |              |
|-----------------------|--------------|
| Type                  | Prerequisite |
| Take ART-171          |              |
| Take ART-171(S10922); |              |

# ART275 - Introduction to Graphic Design

## Overview

### Course Description

This course introduces students to the field of graphic design. Emphasis is placed on the basic concepts of visual communication, the design process and the ability to evaluate and discuss design issues in a critical manner. Upon completion, students should be able to use contemporary design software and visual language techniques as they apply to creative visual problem-solving involving typography, image manipulation, symbolic representation and page management while being responsive to the relationship between client, designer and audience.

**Course ID**  
S24464

### Credit Hours

**Credit Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

**Billing Hours**  
3

# ART276 - Interactive Media and Design Solutions

## Overview

### Course Description

This course introduces students to the concepts and techniques used in designing and producing interactive projects. Emphasis is placed on the interactive development process, aesthetics of visual solutions, technical proficiency, and graphical user interface (GUI) with projects including digital imaging, web design, simple animation, graphics and copyright issues. Upon completion, students should be able to use contemporary software to solve a variety of multimedia problems for a range of platforms and devices that may include web-based interaction, mobile devices or other emerging technology.

### Course ID

S24476

### Credit Hours

Credit  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3

# ART281 - Sculpture I

## Overview

### Course Description

This course provides an exploration of the creative and technical methods of sculpture with focus on the traditional processes. Emphasis is placed on developing basic skills as they pertain to three-dimensional expression in various media. Upon completion, students should be able to show competence in variety of sculptural approaches.

### Course ID

S16229

### Credit Hours

Credit  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3

# ART282 - Sculpture II

## Overview

### Course Description

This course builds on the visual and technical skills learned in ART 281. Emphasis is placed on developing original solutions to sculptural problems in a variety of media. Upon completion, students should be able to express individual ideas using the techniques and materials of sculpture.

### Course ID

S12071

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite    |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take ART-281          |
| Take ART-281(S16229); |

# ART283 - Ceramics I

## Overview

### Course Description

This course provides an introduction to three-dimensional design principles using the medium of clay. Emphasis is placed on fundamentals of forming, surface design, glaze application, and firing. Upon completion, students should be able to demonstrate skills in slab and coil construction, simple wheel forms, glaze technique, and creative expression.

### Course ID

S11998

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

# ART284 - Ceramics II

## Overview

### Course Description

This course covers advanced hand building and wheel techniques. Emphasis is placed on creative expression, surface design, sculptural quality, and glaze effect. Upon completion, students should be able to demonstrate a high level of technical competence in forming and glazing with a development of three-dimensional awareness.

### Course ID

S12018

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |
| Take ART-283       |  |
| Take ART-283;      |  |

# ART285 - Ceramics III

## Overview

### Course Description

This course provides the opportunity for advanced self-determined work in sculptural and functional ceramics. Emphasis is placed on developing the technical awareness of clay bodies, slips, engobes, and firing procedures necessary to fulfill the student's artistic goals. Upon completion, students should be able to demonstrate a knowledge of materials and techniques necessary to successfully create original projects in the clay medium.

### Course ID

S11957

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |
| Take ART-284       |  |
| Take ART-284;      |  |

# ART286 - Ceramics IV

## Overview

### Course Description

This course provides the opportunity for self-determined work in sculptural and functional ceramics. Emphasis is placed on developing the technical awareness of glaze materials, glaze formulation, and firing techniques necessary to fulfill the student's artistic goals. Upon completion, students should be able to demonstrate knowledge of materials and techniques necessary to successfully create original projects in the clay medium.

### Course ID

S12082

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

## Simple Requisites

| State prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |
| Take ART-285       |  |
| Take ART-285;      |  |

# ART288 - Studio

## Overview

### Course Description

This course provides the opportunity for advanced self-determined work beyond the limits of regular studio course sequences. Emphasis is placed on creative self-expression and in-depth exploration of techniques and materials. Upon completion, students should be able to create original projects specific to media, materials, and techniques.

### Course ID

S12053

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:  
3



# ASL111 - Elementary ASL I

## Overview

### Course Description

This course introduces the fundamental elements of American Sign Language within a cultural context. Emphasis is placed on the development of basic expressive and receptive skills. Upon completion, students will be able to comprehend and respond with grammatical accuracy to expressive American Sign Language and demonstrate cultural awareness.

### Course ID

S11976

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:

# ASL112 - Elementary ASL II

## Overview

### Course Description

This course is a continuation of ASL 111 focusing on the fundamental elements of American Sign Language in a cultural context. Emphasis is placed on the progressive development of expressive and receptive skills. Upon completion, the students should be able to comprehend and respond with increasing accuracy to expressive American Sign Language and demonstrate cultural awareness.

### Course ID

S12047

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:

## Simple Requisites

### Local Prerequisite Grade Requirement

#### Type

Prerequisite

- Take ASL-111; minimum grade C
- Take ASL-111(S11976); Minimum grade C;

**State prerequisite**

**Type**  
Prerequisite

Take ASL-111

Take ASL-111(S11976);

# ASL181 - ASL Lab 1

## Overview

### Course Description

This course provides an opportunity to enhance acquisition of the fundamental elements of American Sign Language. Emphasis is placed on the progressive development of basic expressive and receptive skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to expressive American Sign Language and demonstrate cultural awareness.

### Course ID

S20855

### Credit Hours

Credit  
Hours  
Min:  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Billing Hours

Billing  
Hours  
Min:  
1

## Simple Requisites

**Required Concurrent Or Previous Courses**

**Type**  
Corequisite

Take ASL-111

Take ASL-111(S11976);

# ASL182 - ASL Lab 2

## Overview

### Course Description

This course provides an opportunity to enhance acquisition of the fundamental elements of American Sign Language. Emphasis is placed on the progressive development of basic expressive and receptive skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to expressive American Sign Language and demonstrate cultural awareness.

### Course ID

S20856

### Credit Hours

Credit  
Hours  
Min:  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Billing Hours

Billing  
Hours  
Min:  
1

## Simple Requisites

Local Required Concurrent Or Previous Courses

Type

Corequisite

Take ASL-112

Take ASL-112(S12047);

### Local Prerequisite Grade Requirement

#### Type

Prerequisite

- Take ASL-181; minimum grade C
- Take ASL-181(S20855); Minimum grade C;

### State prerequisite

#### Type

Prerequisite

- Take ASL-181
- Take ASL-181(S13595);

# ASL211 - Intermediate ASL I

## Overview

### Course Description

This course provides a review and expansion of the essential skills of American Sign Language. Emphasis is placed on the progressive development of expressive and receptive skills, study of authentic and representative literacy and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively using American Sign Language about the past, present, and future.

### Course ID

S20054

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
Min:  
3

## Simple Requisites

Local Required Concurrent Or Previous Courses

Type  
Corequisite

Take ASL-281  
Take ASL-281(S20857);

Local Prerequisite Grade Requirement

Type  
Prerequisite

- Take ASL-112; minimum grade C
- Take ASL-112(S12047); Minimum grade C;

State prerequisite

Type  
Prerequisite

- Take ASL-112
- Take ASL-112(S16231);

# ASL212 - Intermediate ASL II

## Overview

### Course Description

This course provides a continuation of ASL 211. Emphasis is placed on the continuing development of expressive and receptive skills, with 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.

### Course ID

S16236

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

## Simple Requisites

| Local Prerequisite Grade Requirement |                                        |
|--------------------------------------|----------------------------------------|
| Type                                 |                                        |
| Prerequisite                         |                                        |
|                                      | Take ASL-211; minimum grade C          |
|                                      | Take ASL-211(S20054); Minimum grade C; |
| State prerequisite                   |                                        |

### Type

Prerequisite

Take ASL-211

Take ASL-211(S13118);

# ASL221 - Advanced American Sign Language I

## Overview

### Course Description

This course provides an expansion of the essential and advanced skills of ASL, including advanced vocabulary, lexicalized fingerspelling, and complex grammatical structures. Emphasis is placed on the advanced development of expressive, receptive and conversational skills, study of authentic and representative literacy and cultural texts. Upon completion, students will communicate more accurately with advanced complexity, and to present the topics in the various registers, pragmatics and genres of ASL.

### Course ID

S22134

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

| State prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take ASL-212  
Take ASL-212(S16236);

# ASL250 - Linguistics of American Sign Language

## Overview

### Course Description

This course is designed to increase knowledge and skills necessary to linguistically analyze ASL. Emphasis is placed on applying phonology, morphology, syntax, semantics, discourse and socio- linguistics of ASL. Upon completion, students should be able to demonstrate knowledge and understanding of the basic linguistics of ASL through a variety of assessment methods.

### Course ID

S22682

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take ASL-112          |
| Take ASL-112(S12047); |

# ASL281 - ASL Lab 3

## Overview

### Course Description

This course provides an opportunity to enhance the review and expansion of the essential skills of American Sign Language. Emphasis is placed on the progressive development of expressive and receptive skills through 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.

### Course ID

S20857

### Credit Hours

Credit  
Hours  
1  
Min:

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

### Billing Hours

Billing  
Hours  
1  
Min:

### Simple Requisites

|                                               |
|-----------------------------------------------|
| Local Required Concurrent Or Previous Courses |
| Type<br>Corequisite                           |
| Take ASL-211                                  |
| Take ASL-211(S20054);                         |

**Local Prerequisite Grade Requirement**

**Type**  
Prerequisite

Take ASL-182; minimum grade C

Take ASL-182(S20856); Minimum grade C;

**State prerequisite**

**Type**  
Prerequisite

Take ASL-182

Take ASL-182(S13633);

# ASL282 - ASL Lab 4

## Overview

### Course Description

This course provides an opportunity to enhance the review and expansion of the essential skills of American Sign Language. Emphasis is placed on the continuing development of expressive and receptive skills and study of authentic and representative literary and cultural texts thorough 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.

### Course ID

S20858

### Credit Hours

Credit  
Hours  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

**State prerequisite**

**Type**  
Prerequisite

Take ASL-281



# AST111 - Descriptive Astronomy

## Overview

### Course 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.

### Course ID

S10553

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| Local Corequisite |             |
|-------------------|-------------|
| Type              | Corequisite |
| Take AST-111A     |             |
| Take AST-111A;    |             |

# AST111A - Descriptive Astronomy Lab

## Overview

### Course 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.

### Course ID

S13670

### Credit Hours

Credit  
Hours  
1

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

| State concurrent or previous courses |             |
|--------------------------------------|-------------|
| Type                                 | Corequisite |
| Take AST-111                         |             |
| Take AST-111;                        |             |

# AST151 - General Astronomy I

## Overview

### Course 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.

### Course ID

S10092

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# AST151A - General Astronomy I Lab

## Overview

### Course 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.

### Course ID

S10019

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

### Simple Requisites

State concurrent or previous courses

#### Type

Corequisite

Take AST-151

Take AST-151;

# AST152 - General Astronomy II

## Overview

### Course 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.

### Course ID

S10028

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take AST-151       |
| Take AST-151;      |

# AST152A - General Astronomy II Lab

## Overview

### Course 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.

### Course ID

S12436

### Credit Hours

Credit  
Hours  
1  
Min:

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

### Billing Hours

Billing  
Hours  
1  
Min:

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take AST-151       |
| Take AST-151;      |

| State concurrent or previous courses |
|--------------------------------------|
|--------------------------------------|

**Type**  
Corequisite

Take AST-152  
Take AST-152;

# AST251 - Observational Astronomy

## Overview

### Course Description

This course covers the operation of the telescope and related observatory equipment. Emphasis is placed on the use of the telescope and related observatory equipment, including techniques of data collection, measurements, and data analysis. Upon completion, students should be able to set up a telescope and use the coordinate system to locate objects, collect data, and make measurements with the telescope.

### Course ID

S11574

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 1               | 1             |

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

**State prerequisite**  
**Type**  
Prerequisite

Take One: AST-111 or AST-152

Take AST-111 or AST-152;

# ATR112 - Introduction to Automation

## Overview

### Course 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.

### Course ID

S23467

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# ATR212 - Industrial Robots

## Overview

### Course Description

This course covers the operation of industrial robots. Topics include the classification of robots, activators, grippers, work envelopes, computer interfaces, overlapping work envelopes, installation, and programming. Upon completion, students should be able to install, program, and troubleshoot industrial robots.

### Course ID

S23469

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# ATR280 - Robotic Fundamentals

## Overview

### Course Description

This course covers application, programming, and maintenance fundamentals for robotic devices. Emphasis is placed on terminology, problem solving, robotic systems controls, and hands-on projects. Upon completion, students should be able to apply basic concepts in application, programming, and robotic control systems.

**Course ID**  
S12171

**Credit Hours**

**Credit Hours**  
4

**Billing Hours**

**Billing Hours**  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

# AUB111 - Painting & Refinishing I

## Overview

### Course Description

This course introduces the proper procedures for using automotive refinishing equipment and materials in surface preparation and application. Topics include federal, state, and local regulations, personal safety, refinishing equipment and materials, surface preparation, masking, application techniques, and other related topics. Upon completion, students should be able to identify and use proper equipment and materials in refinishing following accepted industry standards.

**Course ID**  
S10171

**Credit Hours**

**Credit Hours**  
4

**Billing Hours**

**Billing Hours**  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

Take AUB-111;

# AUB112 - Painting & Refinishing II

## Overview

### Course Description

This course covers advanced painting techniques and technologies with an emphasis on identifying problems encountered by the refinishing technician. Topics include materials application, color matching, correction of refinishing problems, and other related topics. Upon completion, students should be able to perform spot, panel, and overall refinishing repairs and identify and correct refinish problems.

### Course ID

S10119

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take AUB-111

# AUB114 - Special Finishes

## Overview

### Course Description

This course introduces multistage finishes, custom painting, and protective coatings. Topics include base coats, advanced intermediate coats, clear coats, and other related topics. Upon completion, students should be able to identify and apply specialized finishes based on accepted industry standards.

**Course ID**  
S10135

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

| State prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |
| Take AUB-111       |  |
| Take AUB-111;      |  |

# AUB121 - Non-Structural Damage I

## Overview

### Course Description

This course introduces safety, tools, and the basic fundamentals of body repair. Topics include shop safety, damage analysis, tools and equipment, repair techniques, materials selection, materials usage, and other related topics. Upon completion, students should be able to identify and repair minor direct and indirect damage including removal/repairing/replacing of body panels to accepted standards.

**Course ID**  
S12230

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |



# AUB122 - Non-Structural Damage II

## Overview

### Course Description

This course covers safety, tools, and advanced body repair. Topics include shop safety, damage analysis, tools and equipment, advanced repair techniques, materials selection, materials usage, movable glass, and other related topics. Upon completion, students should be able to identify and repair or replace direct and indirect damage to accepted standards including movable glass and hardware.

### Course ID

S12174

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

| Prerequisite |              |
|--------------|--------------|
| Type         | Prerequisite |
| Take AUB-121 |              |

Take AUB-121;

# AUB131 - Structural Damage I

## Overview

### Course Description

This course introduces safety, equipment, structural damage analysis, and damage repairs. Topics include shop safety, design and construction, structural analysis and measurement, equipment, structural glass, repair techniques, and other related topics. Upon completion, students should be able to analyze and perform repairs to a vehicle which has received light/moderate structural damage.

### Course ID

S10839

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

# AUB136 - Plastics & Adhesives

## Overview

### Course Description

This course covers safety, plastic and adhesive identification, and the various repair methods of automotive plastic components. Topics include safety, identification, preparation, material selection, and the various repair procedures including refinishing. Upon completion, students should be able to identify, remove, repair, and/or replace automotive plastic components in accordance with industry standards.

### Course ID

S10794

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 4              | Load 4   |

# AUB141 - Mechanical & Electrical Components I

## Overview

### Course Description

This course covers the basic principles of automotive mechanical and electrical components. Topics include personal and environmental safety and suspension and steering, electrical, brake, heating and air-conditioning, cooling, drive train, and restraint systems. Upon completion, students should be able to identify system components and perform basic system diagnostic checks and/or repairs according to industry standards.

### Course ID

S13093

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# AUB162 - Autobody Estimating

## Overview

### Course Description

This course provides a comprehensive study of autobody estimating. Topics include collision damage analysis, industry regulations, flat-rate and estimated time, and collision estimating manuals. Upon completion, students should be able to prepare and interpret a damage report.

**Course ID**  
S11329

### Credit Hours

**Credit Hours**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

### Billing Hours

**Billing Hours**  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# AUC111 - Automotive Customizing Research

## Overview

### Course Description

This course covers planning, designs, and research used in automotive customizing. Emphasis is placed on auto customization planning, cost analysis, creative design techniques, and research of available add-on components used in auto customizing. Upon completion, students should be able to develop designs and prepare cost analyses incorporated into a plan of action for customizing vehicles.

**Course ID**  
S21523

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

### Billing Hours

**Billing Hours**  
3

# AUC112 - Automotive Custom Fabrication

## Overview

### Course Description

This course covers modifications of existing vehicle components, as well as fabrication of new vehicle components. Emphasis is placed on basic customizing techniques used on factory original parts, as well as fabrication of custom components using machining processes and customizing techniques. Upon completion, students should be able to modify existing factory components and create custom-fabricated components using auto customizing techniques.

### Course ID

S21524

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 4              | 4        |

# AUC114 - Custom Fiberglass Skills

## Overview

### Course Description

This course will provide instruction in non-metallic customizing and repair techniques. Emphasis will be placed on diagnosis and repair of cracks, proper use of bonding agents, fiberglass body parts removal/replacement, and custom fabrication techniques using fiberglass materials. Upon completion, students should be able to identify types of fiberglass and demonstrate the ability to properly prepare, apply, and finish fiberglass components.

### Course ID

S21526

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 4              | 4        |

# AUC115 - Glass Customizing Methods

## Overview

### Course Description

This course will provide instruction on window removal/replacement, window tinting, and custom glass design etching techniques. Emphasis will be placed on proper removal/replacement, window tinting, laws concerning window tinting, and customizing techniques used to etch designs in auto glasses. Upon completion, students should be able to interpret the laws concerning window tinting, perform removal/replacement/tinting, and use customizing techniques to etch designs on auto glass.

### Course ID

S21527

### Credit Hours

Credit Hours  
4

### Billing Hours

Billing Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 4              | Load 4   |

# AUC117 - Custom Airbrushing Overview

### Course Description

This course covers custom airbrushing techniques, finish application, and equipment selection. Emphasis is placed on the design and application of custom airbrushing techniques and proper equipment maintenance. Upon completion, students should be able to design and apply custom air brush graphics using a variety of techniques.

### Course ID

S22945

### Credit Hours

Credit Hours  
4

### Billing Hours

Billing Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 6              | Load 6   |

# AUT116 - Engine Repair

## Overview

### Course Description

This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

### Course ID

S21687

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

| Local Recommended Concurrent Or Previous Courses |  |
|--------------------------------------------------|--|
| Type                                             |  |
| Corequisite                                      |  |

|                        |
|------------------------|
| Take AUT-116A          |
| Take AUT-116A(S21688); |

# AUT116A - Engine Repair Lab

## Overview

### Course Description

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

**Course ID**  
S21688

**Credit Hours**

**Credit Hours**  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

**Billing Hours**

**Billing Hours**  
1

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type                                 |
| Corequisite                          |
| Take AUT-116                         |
| Take AUT-116(S21687);                |

# AUT123 - Powertrain Diagnosis & Service

## Overview

### Course Description

This course covers the diagnosis, repair and service of the vehicle powertrain and related systems. Topics include fundamental operating principles of engines and transmissions and use of proper service procedures for diagnosis, service and removal and replacement of major components. Upon completion, students should be able to perform basic service and diagnosis of the powertrain and related systems, and to perform in vehicle repairs and remove and replace components.

**Course ID**  
S21689

**Credit Hours**

**Credit Hours**  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 1               | 1     |

**Billing Hours**

**Billing Hours**  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

# AUT141 - Suspension & Steering Systems

## Overview

### Course Description

This course covers principles of operation, types, and diagnosis/repair of suspension and steering systems to include steering geometry. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

### Course ID

S21690

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

| Local Prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take TRN-110

Take TRN-110(S23455);



# AUT141A - Suspension & Steering Lab

## Overview

### Course Description

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

### Course ID

S21691

### Credit Hours

Credit  
Hours  
Min:  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Billing Hours

Billing  
Hours  
Min:  
1

### Simple Requisites

#### Prerequisite

#### Type

Prerequisite

Take TRN-110

Take TRN-110(S23455);

#### State concurrent or previous courses

#### Type

Corequisite

Take AUT-141

Take AUT-141(S21690);

# AUT151 - Brake Systems

## Overview

### Course Description

This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disc brakes involving hydraulic, vacuum boost, hydra-boost, electrically powered boost, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

### Course ID

S21692

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

| Local Recommended Concurrent Or Previous Courses |  |
|--------------------------------------------------|--|
| Type                                             |  |
| Corequisite                                      |  |
| Take AUT-151A                                    |  |

# AUT151A - Brakes Systems Lab

## Overview

### Course Description

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include drum and disc brakes involving hydraulic, vacuum-boost, hydra-boost, electrically powered boost, and anti-lock, parking brake systems and emerging brake systems technologies. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

### Course ID

S21693

### Credit Hours

Credi  
t  
Hour  
s  
Min:  
1

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
1

### Simple Requisites

| State concurrent or previous courses |  |
|--------------------------------------|--|
| Type                                 |  |
| Corequisite                          |  |
| Take AUT-151                         |  |
| Take AUT-151(S21692);                |  |

# AUT163 - Advanced Automotive Electricity

## Overview

### Course Description

This course covers electronic theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of electronics, lighting, gauges, horn, wiper, accessories, and body modules. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, and troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns.

### Course ID

S23604

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

#### Local Corequisite

Type  
Corequisite

Take AUT-163A  
Take AUT-163A;

#### State prerequisite

Type  
Prerequisite

Take TRN-120  
Take TRN-120(S23456);

# AUT163A - Advanced Automotive Electricity Lab

## Overview

### Course Description

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, troubleshooting and emerging electrical/electronic systems technologies. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns.

### Course ID

S21699

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|              |
|--------------|
| Prerequisite |
| Type         |
| Prerequisite |

Take TRN-120  
Take TRN-120(S23456);

### Local Corequisite

Type  
Corequisite

Take AUT-163  
Take AUT-163(S23604);

### State concurrent or previous courses

Type  
Corequisite

Take AUT-163  
Take AUT-163(S21698);

# AUT181 - Engine Performance 1

## Overview

### Course Description

This course covers the introduction, theory of operation, and basic diagnostic procedures required to restore engine performance to vehicles equipped with complex engine control systems. Topics include an overview of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information.

### Course ID

S21701

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

Local Prerequisite  
Type  
Prerequisite

Take TRN-110  
Take TRN-110(S23455);

Local Corequisite  
Type  
Corequisite

Take AUT-181A  
Take AUT-181A(S21702);

# AUT181A - Engine Performance 1 Lab

## Overview

### Course Description

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include overviews of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices and emerging engine performance technologies. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information.

### Course ID

S21702

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
1

### Simple Requisites

|              |
|--------------|
| Prerequisite |
| Type         |
| Prerequisite |

Take TRN-110  
Take TRN-110(S23455);

### State concurrent or previous courses

Type  
Corequisite

Take AUT-181  
Take AUT-181(S21701);

# AUT212 - Auto Shop Management

## Overview

### Course Description

This course covers the principles of management essential to decision-making, communication, authority, and leadership. Topics include shop supervision, shop organization, customer relations, cost effectiveness and work place ethics. Upon completion, students should be able to describe basic automotive shop operation from a management standpoint.

### Course ID

S21705

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| Local Prerequisite    |  |
|-----------------------|--|
| Type                  |  |
| Prerequisite          |  |
| Take TRN-110          |  |
| Take TRN-110(S23455); |  |

# AUT213 - Automotive Servicing 2

## Overview

### Course Description

This course is a lab used as an alternative to co-op placement. Emphasis is placed on shop operations, troubleshooting, testing, adjusting, repairing, and replacing components using appropriate test equipment and service information. Upon completion, students should be able to perform a variety of automotive repairs using proper service procedures and to operate appropriate equipment.

### Course ID

S21706

### Credit Hours

Credit  
Hours  
2  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 1               | 1             |

### Billing Hours

Billing  
Hours  
2  
Min:

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

# AUT221 - Automatic Transmissions/Transaxles

## Overview

### Course Description

This course covers operation, diagnosis, service, and repair of automatic transmissions/transaxles. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair automatic drive trains.

### Course ID

S21707

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

| Prerequisite |
|--------------|
| Type         |
| Prerequisite |
| Take TRN-110 |

Take TRN-110(S23455);

### Local Corequisite

#### Type

Corequisite

Take AUT-221A  
Take AUT-221A(S21710);



# AUT221A - Automatic Transmissions/Transaxles Lab

## Overview

### Course Description

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to diagnose and repair automatic drive trains.

### Course ID

S21710

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Billing Hours

Billing  
Hour  
s  
Min:  
1

### Simple Requisites

**Prerequisite**

**Type**  
Prerequisite

TRN-110

Take TRN-110(S23455);

State concurrent or previous courses

**Type**  
Corequisite

- Take AUT-221
- Take AUT-221(S21707);

# AUT231 - Manual Transmissions/Transaxles/Drive Trains

Take TRN-110

Take TRN-110(S23455);

## Overview

### Course Description

This course covers the operation, diagnosis, and repair of manual transmissions/transaxles, clutches, driveshafts, axles, and final drives. Topics include theory of torque, power flow, and manual drive train servicing and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair manual drive trains.

### Course ID

S22040

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

Prerequisite  
Type  
Prerequisite

# AUT281 - Advanced Engine Performance

## Overview

### Course Description

This course utilizes service information and specialized test equipment to diagnose and repair power train control systems. Topics include computerized ignition, fuel and emission systems, related diagnostic tools and equipment, data communication networks, and service information. Upon completion, students should be able to perform diagnosis and repair.

### Course ID

S21713

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

| Prerequisite                             |
|------------------------------------------|
| Type                                     |
| Prerequisite                             |
| Take AUT-181 or AUT-183                  |
| Take AUT-181(S13254) or AUT-183(S13275); |

# BAF110 - Principles of Banking

## Overview

### Course Description

This course covers the fundamentals of bank functions in a descriptive fashion. Topics include banks and the monetary system, the relationship of banks to depositors, the payment functions, bank loans and accounting, regulations, and examinations. Upon completion, students should be able to demonstrate an understanding of the business of banking from a broad perspective.

### Course ID

S24131

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
3

# BAF111 - Teller Training

## Overview

### Course Description

This course provides an overview of banking teller operations, bank security, and customer relations in preparation for work as a bank teller. Topics include bank profitability, cash and cash handling, checks and other transactions, balancing and setting, and security threats and their detection. Upon completion, students should be able to discuss the components of teller performance and perform effectively as a teller after minimal on-the-job training.

### Course ID

S10163

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3

# BAF143 - Financial Planning

## Overview

### Course Description

This course covers the perspectives, principles, and practices of financial planning. Topics include investment, retirement, tax, and estate planning. Upon completion, students should be able to understand the process that looks at a customer's financial picture and recommend strategies to achieve the customer's objectives.

### Course ID

S13055

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3

# BAF232 - Consumer Lending

## Overview

### Course Description

This course details the many types of credit arrangements in which a finance charge is paid for the privilege of repaying debt in delayed payments. Topics include consumer credit policy, the loan process, servicing and collecting loans, consumer compliance, and evaluating credit risks. Upon completion, students should be able to identify collection policies and procedures, explain principles of credit evaluation, define open-end credit, and describe indirect lending.

### Course ID

S12709

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:

# BAF234 - Residential Mortgage Lending

## Overview

### Course Description

This course provides an overview of the field of mortgage lending and the various financial markets for real estate mortgages. Topics include conventional and government related mortgages, contracts, financial markets, and qualifying prospective loan customers. Upon completion, students should be able to demonstrate an understanding of mortgage loan origination and processing, government regulations, and compliance issues.

### Course ID

S12657

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:

# BAS120 - Introduction to Analytics

## Overview

### Course Description

This course introduces basic concepts and applications of analytics. Topics include an overview of the analytical process and the role of the analyst, applied descriptive statistics, and exploratory data analysis. Upon completion, students should be able to demonstrate a basic understanding of analytics for decision-making in business.

### Course ID

S24318

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# BAS121 - Data Visualization Overview

### Course Description

This course introduces key concepts in data visualization and reporting. Topics include concepts and methods used in graphical representation of data, exploration and reporting of data, and basic linear regression methods. Upon completion, students should be able to effectively use graphical tools to communicate insights about data.

### Course ID

S24319

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take BAS-120

Take BAS-120(S24318);

# BAS150 - Introduction to Analytical Programming

## Overview

### Course Description

This course introduces statistical software for analytics. Topics include utilization of analytical and statistical software packages for data management, data visualization, and exploratory data analysis. Upon completion, students should be able to use statistical programming tools to conduct descriptive analytics.

### Course ID

S24320

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# BAS220 - Applied Analytical Programming

## Overview

### Course Description

This course covers applications of statistical software for data management and reporting. Topics include data management, data preprocessing, and modeling including linear and logistic regression analysis using programming tools. Upon completion, students should be able to process data and generate reports that support business decision-making.

### Course ID

S24321

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

## Simple Requisites

### State prerequisite

#### Type

Prerequisite

- Take BAS-150
- Take BAS-150(S24320);

# BAS221 - Introduction to Predictive Analytics

## Overview

### Course Description

This course introduces foundations of predictive analytics. Topics include basic predictive modeling methods for both classification and regression tasks. Upon completion, students should be able to build and validate predictive models.

### Course ID

S24322

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| State prerequisite                    |              |
|---------------------------------------|--------------|
| Type                                  | Prerequisite |
| Take All: BAS-121 and BAS-220         |              |
| Take BAS-121(S24319) BAS-220(S24321); |              |

# BAS230 - Applied Predictive Modeling

## Overview

### Course Description

This course covers advanced applications of predictive models. Topics include the advanced use of classification and regression models in real-world scenarios. Upon completion, students should be able to utilize their knowledge and skills in predictive analytics to independently guide decision makers.

### Course ID

S24323

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| State prerequisite    |              |
|-----------------------|--------------|
| Type                  | Prerequisite |
| Take BAS-221          |              |
| Take BAS-221(S24322); |              |



Take BAS-121(S24319) BAS-220(S24321);

# BAS240 - Data Structures for Analytics

## Overview

### Course Description

This course is designed to enhance student proficiency in data management skills for analytics applications. Topics include techniques and methods for identification, extraction, and preparation of data for processing with analytical software. Upon completion, students should be able to demonstrate the skills necessary to effectively organize and combine different data sources for analytic applications.

### Course ID

S24330

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take All: BAS-121 and BAS-220

Take BAS-221(S24322) BAS-240;

# BAS270 - Advanced Analytical Tools and Methods

## Overview

### Course Description

This course covers the planning and execution of an analytics project that integrates the analytical knowledge and skills acquired through prior coursework. Students will define and carry out an analytics project from inception to final reporting. Upon completion, students should be able to demonstrate their ability to apply analytic methods and best practices in a simulated business setting.

### Course ID

S24333

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take All: BAS-221 and BAS-240

# BIO106 - Introduction to Anatomy/Physiology/ Microbiology

## Overview

### Course Description

This course covers the fundamental and principle concepts of human anatomy and physiology and microbiology. Topics include an introduction to the structure and function of cells, tissues, and human organ systems, and an overview of microbiology, epidemiology, and control of microorganisms. Upon completion, students should be able to identify structures and functions of the human body and describe microorganisms and their significance in health and disease.

### Course ID

S14010

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

Local English Prerequisite

### Type

Prerequisite

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

# BIO110 - Principles of Biology

## Overview

### Course 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.

### Course ID

S24019

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# BIO111 - General Biology I

## Overview

### Course 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.

### Course ID

S24020

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-025 or ENG-111

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-025; # Take ENG-111(S26393);

# BIO112 - General Biology II

## Overview

### Course 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.

### Course ID

S24021

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

#### State prerequisite

Type  
Prerequisite

- Take BIO-111
- Take BIO-111(S24020);

# BIO120 - Introductory Botany

## Overview

### Course Description

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants.

### Course ID

S13789

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 3              | 3           |

### Simple Requisites

| State prerequisite           |              |
|------------------------------|--------------|
| Type                         | Prerequisite |
| Take One: BIO-110 or BIO-111 |              |

# BIO130 - Introductory Zoology

## Overview

### Course Description

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups.

### Course ID

S11571

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 3              | 3           |

### Simple Requisites

| State prerequisite           |              |
|------------------------------|--------------|
| Type                         | Prerequisite |
| Take One: BIO-110 or BIO-111 |              |

Take BIO-140A;

# BIO140 - Environmental Biology

## Overview

### Course 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.

### Course ID

S14156

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
Min:  
3

### Simple Requisites

Recommended concurrent or previous courses

#### Type

Corequisite

Take BIO-140A

# BIO140A - Environmental Biology Lab

## Overview

### Course 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.

### Course ID

S13084

### Credit Hours

Credit Hours  
1

| Name           |  | Code |  |
|----------------|--|------|--|
| Lab/Shop Hours |  | LAB  |  |
| Contact Hours  |  | Load |  |
| 3              |  | 3    |  |

### Billing Hours

Billing Hours  
1

### Simple Requisites

| State concurrent or previous courses |  |
|--------------------------------------|--|
| Type                                 |  |
| Corequisite                          |  |
| Take BIO-140                         |  |
| Take BIO-140;                        |  |

# BIO143 - Field Biology Minicourse

## Overview

### Course Description

This course introduces the biological and physical components of a field environment. Emphasis is placed on a local field environment with extended field trips to other areas. Upon completion, students should be able to demonstrate an understanding of the biological and physical components of the specific biological environment.

### Course ID

S14183

### Credit Hours

Credit Hours  
2

| Name            |  | Code  |  |
|-----------------|--|-------|--|
| Classroom Hours |  | CLASS |  |
| Contact Hours   |  | Load  |  |
| 1               |  | 1     |  |

### Billing Hours

Billing Hours  
2

| Name           |  | Code |  |
|----------------|--|------|--|
| Lab/Shop Hours |  | LAB  |  |
| Contact Hours  |  | Load |  |
| 2              |  | 2    |  |

### Simple Requisites

| Local English Prerequisite                                                            |  |
|---------------------------------------------------------------------------------------|--|
| Type                                                                                  |  |
| Prerequisite                                                                          |  |
| Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2), |  |



RED-090, ENG-095, ENG-011 or ENG-111  
Take 1 group; # Take DRE-098(S23643); # Take  
ENG-002; From rule RMINP2; # Take  
BSP-4002(S25167); From rule BSPMINP2; # Take  
RED-090; # Take ENG-095; # Take ENG-011; #  
Take ENG-111(S25433);

# BIO145 - Ecology

## Overview

### Course Description

This course provides an introduction to ecological concepts using an ecosystems approach. Topics include energy flow, nutrient cycling, succession, population dynamics, community structure, and other related topics. Upon completion, students should be able to demonstrate comprehension of basic ecosystem structure and dynamics.

### Course ID

S14188

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take One: BIO-110 or BIO-111  
Take BIO-110(S13284) or BIO-111(S13307);

# BIO146 - Regional Natural History

## Overview

### Course Description

This course is an interdisciplinary and historical analysis of the natural resources of the region. Emphasis is placed on geology, climate, forest systems, watersheds, water resources, and fish and wildlife resources of the region. Upon completion, students should be able to demonstrate comprehension of the natural history and the integration of the natural resources of the region.

### Course ID

S14171

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# BIO150 - Genetics in Human Affairs

## Overview

### Course Description

This course describes the importance of genetics in everyday life. Topics include the role of genetics in human development, birth defects, cancer and chemical exposure, and current issues including genetic engineering and fertilization methods. Upon completion, students should be able to understand the relationship of genetics to society today and its possible influence on our future.

### Course ID

S12454

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
3

## Simple Requisites

State prerequisite

Type  
Prerequisite

- Take One: BIO-110 or BIO-111
- Take BIO-110(S13284) or BIO-111(S13307);

# BIO155 - Nutrition

## Overview

### Course 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.

### Course ID

S12502

### Credit Hours

Credit  
Hours  
3  
Minutes  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Minutes  
3

# BIO163 - Basic Anatomy & Physiology

## Overview

### Course 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.

### Course ID

S13508

### Credit Hours

Credit  
Hours  
5  
Minutes  
5

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 4               | 4          |

### Billing Hours

Billing  
Hours  
5  
Minutes  
5

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

## Simple Requisites

### Local English Prerequisite

Type  
Prerequisite

Take DRE-098, ENG-002(with minimum grade of

P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

# BIO165 - Anatomy and Physiology I

## Overview

### Course Description

This course is the first of a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

### Course ID

S13524

### Credit Hours

Credit Hours  
4

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

# BIO166 - Anatomy and Physiology II

## Overview

### Course Description

This course is the second in a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and the interrelationships of all body systems.

### Course ID

S13496

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take BIO-165

Take BIO-165;

# BIO168 - Anatomy and Physiology I

## Overview

### Course 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.

### Course ID

S11555

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

#### Local English Prerequisite

##### Type

Prerequisite

Take DRE-098, ENG-002(with minimum grade of

P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

# BIO169 - Anatomy and Physiology II

## Overview

### Course 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.

### Course ID

S11629

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take BIO-168

Take BIO-168(S11555);

# BIO175 - General Microbiology

## Overview

Take BIO-110(S13284) BIO-111(S13307)  
BIO-163 BIO-165 or BIO-168(S11555);

### Course 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.

### Course ID

S20491

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

### Simple Requisites

| State prerequisite                                       |              |
|----------------------------------------------------------|--------------|
| Type                                                     | Prerequisite |
| Take One: BIO-110, BIO-111, BIO-163, BIO-165, or BIO-168 |              |



# BIO180 - Biological Chemistry

## Overview

### Course Description

This course provides an introduction to basic biochemical processes in living systems. Topics include properties of carbohydrates, lipids, proteins, nucleic acids, vitamins, and buffers, with emphasis on biosynthesis, degradation, function, and equilibrium. Upon completion, students should be able to demonstrate an understanding of fundamental biochemical concepts.

### Course ID

S14065

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

| Prerequisite                             |  |
|------------------------------------------|--|
| Type Prerequisite                        |  |
| Take ENG-095 RED-090 or ENG-111;         |  |
| Take ENG-095 RED-090 or ENG-111(S13673); |  |

# BIO224 - Local Flora Spring

## Overview

### Course Description

This course provides an introduction to the identification of native plants. Emphasis is placed on spring wild flowers. Upon completion, students should be able to identify a variety of spring wild flowers and native plants.

### Course ID

S14262

### Credit Hours

Credit Hours  
2

### Billing Hours

Billing Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# BIO230 - Entomology

## Overview

### Course Description

This course covers the biology of insects. Topics include harmful and beneficial insects, their identification, classification, life cycles, behavior, distribution, economic importance, and the methods involved in collection and preservation. Upon completion, students should be able to identify common insects and describe their biology and ecology.

**Course ID**  
S12635

**Credit Hours**

**Credit Hours**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

**Billing Hours**

**Billing Hours**  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| State prerequisite    |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take BIO-112          |
| Take BIO-112(S13261); |

# BIO242 - Natural Resource Conservation

## Overview

### Course Description

This course covers the importance of natural resources and their role in our environment. Emphasis is placed on the physical, biological, and ecological principles underlying natural resource conservation with attention to the biological consequences of human impacts. Upon completion, students should be able to demonstrate an understanding of natural resource conservation.

**Course ID**  
S22584

**Credit Hours**

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

**Billing Hours**

**Billing Hours**  
3

### Simple Requisites

| State prerequisite                                       |
|----------------------------------------------------------|
| Type                                                     |
| Prerequisite                                             |
| Take One Set: Set 1: BIO 112 Set 2: BIO 140 and BIO 140A |

Take 1 group; # Take BIO-112(S13261); # Take BIO-140 BIO-140A;

# BIO243 - Marine Biology

## Overview

### Course Description

This course covers the physical and biological components of the marine environment. Topics include major habitats, the diversity of organisms, their biology and ecology, marine productivity, and the use of marine resources by humans. Upon completion, students should be able to identify various marine habitats and organisms and to demonstrate a knowledge of their biology and ecology.

### Course ID

S13534

### Credit Hours

Credit Hours  
Minimum: 4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
Minimum: 4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| State prerequisite                       |              |
|------------------------------------------|--------------|
| Type                                     | Prerequisite |
| Take One: BIO-110 or BIO-111             |              |
| Take BIO-110(S13284) or BIO-111(S13307); |              |

# BIO250 - Genetics

## Overview

### Course Description

This course covers principles of prokaryotic and eukaryotic cell genetics. Emphasis is placed on the molecular basis of heredity, chromosome structure, patterns of Mendelian and non-Mendelian inheritance, evolution, and biotechnological applications. Upon completion, students should be able to recognize and describe genetic phenomena and demonstrate knowledge of important genetic principles.

### Course ID

S12198

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| State prerequisite    |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take BIO-112          |
| Take BIO-112(S13261); |

# BIO265 - Cell Biology

## Overview

### Course Description

This course provides an in-depth study of cellular organization and communication, biochemical cell processes, and cellular growth, replication and death. Topics include organelle structure and function, nucleic acid and protein synthesis, gene organization and regulation, cell signaling mechanisms, bioenergetics, cell motility and apoptosis. Upon completion, students should be able to demonstrate knowledge of cell structure and function and lab skills including microscopy, cell culture, and molecular biology techniques.

### Course ID

S22560

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |

Take One: BIO-111, BIO-275, or BIO-280

Take BIO-111(\$13307) BIO-275(\$12975) or  
BIO-280(\$13753);

# BIO271 - Pathophysiology

## Overview

### Course Description

This course provides an in-depth study of human pathological processes and their effects on homeostasis. Emphasis is placed on interrelationships among organ systems in deviations from homeostasis. Upon completion, students should be able to demonstrate a detailed knowledge of pathophysiology.

### Course ID

S13002

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite                        |
|-------------------------------------------|
| Type                                      |
| Prerequisite                              |
| Take One: BIO-163, BIO-166, or BIO-169    |
| Take BIO-163 BIO-166 or BIO-169(\$16244); |

# BIO275 - Microbiology

## Overview

### Course 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.

### Course ID

S26030

### Credit Hours

Credit  
Hours  
4

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
4

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take One: BIO 111, BIO 163, BIO 165, or BIO 168

Take 1 group; # Take BIO-111(S13307); # Take BIO-163; # Take BIO-165; # Take BIO-168(S11555);

# BIO280 - Biotechnology

## Overview

### Course Description

This course provides experience in selected laboratory procedures. Topics include proper laboratory techniques in biology and chemistry. Upon completion, students should be able to identify laboratory techniques and instrumentation in basic biotechnology.

### Course ID

S22696

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   |               |
| 2               | Load<br>2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  |             |
| 3              | Load<br>3   |

### Simple Requisites

| State prerequisite                       |  |
|------------------------------------------|--|
| Type                                     |  |
| Prerequisite                             |  |
| Take One: BIO-111, CHM-131, or CHM-151   |  |
| Take BIO-111(S13307) CHM-131 or CHM-151; |  |

# BMS117 - Marine Spray

## Finishing

## Overview

### Course Description

This course covers the fundamental techniques used in the preparation and application of marine finishes, using modern coatings and spray equipment common to the marine manufacturing and service industry. Emphasis is placed on safety, product data sheets, mixing ratios, proper spray technique, troubleshooting finishes and equipment. Upon completion, students should be able to correctly operate tools to efficiently prepare surfaces, apply fairing compounds, primers and finish coats to industry standards.

### Course ID

S21973

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   |               |
| 1               | Load<br>1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  |             |
| 2              | Load<br>2   |

### Simple Requisites

| Local Prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |

Take BTB-110

Take BTB-110;

# BMS118 - Basic Boat Operation

## Overview

### Course Description

This course covers the skills necessary to safely operate small boats and watercraft. Topics include safe boating practices, maneuvering boats and watercraft in waterways or marinas, and familiarity with basic nautical rules and boating etiquette. Upon completion, students should be able to demonstrate safe operation and proficiency in docking, launching, and retrieving small boats and watercraft, and exhibit proper maneuvering techniques within inland waterways.

### Course ID

S25572

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

#### Local Corequisite

Type  
Corequisite

Take BTB-107 and BTB-110



Take CUL-110(S11030) CUL-160(S13015);

# BPA120 - Petit Fours and Pastries

## Overview

### Course Description

This course introduces the basic principles of the preparation and plating of a variety of petit fours and individual dessert pastries. Emphasis is placed on traditional and contemporary petit fours and pastries utilizing updated production methods. Upon completion, students should be able to produce individual pastries and petit fours for buffet and special event settings.

### Course ID

S22827

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take All: CUL-110 and CUL-160

Take CUL-110(S11030) CUL-160(S13015);

# BPA130 - European Cakes and Tortes

## Overview

### Course Description

This course introduces the production of a wide variety of classical and modern cakes suitable for restaurants, retail shops and large-scale production. Emphasis is placed on classic cakes using the methods of mixing, filling, glazing and icing. Upon completion, students should be able to prepare, assemble, and decorate gelatin-based and layered tortes and cakes such as Bavarian, Dobos, and Sacher.

### Course ID

S22828

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take All: CUL-110 and CUL-160

Take CUL-110(S11030) CUL-160(S13015);

# BPA150 - Artisan & Specialty Bread

## Overview

### Course Description

This course provides an advanced study in the art and craft of bread making. Topics include pertinent formulas and techniques associated with naturally leavened loaves, hearth breads, focaccia, flat breads, and other breads utilizing a variety of grains. Upon completion, students should be able to prepare artisan and specialty breads that meet or exceed the expectations of restaurant and retail publics.

### Course ID

S20739

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take All: CUL-110 and CUL-160

Take CUL-110(S11030) CUL-160(S13015);

# BPA165 - Hot and Cold Desserts

## Overview

### Course Description

This course covers the principles and techniques of frozen desserts, souffles, cobblers, crisps, and strudel dough products. Topics include bombes, parfaits, baked Alaska, ice cream, sorbets, sherbets and granites; hand-stretched strudel products, crepes, and hot/cold souffles. Upon completion, student should be able to prepare and plate hot and cold desserts with suitable sauces and garnishes.

### Course ID

S22829

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take All: CUL-110 and CUL-160

Take CUL-110(S11030) CUL-160(S13015);

# BPA210 - Cake Design and Decorating

## Overview

### Course Description

This course covers advanced concepts in the design and decoration of wedding cakes and other specialty cakes. Topics include baking, filling, and assembling cakes; cake design; finishing techniques utilizing gum paste, fondant, and royal icing; and advanced piping skills. Upon completion, students should be able to design, create, finish and evaluate the quality of wedding and specialty cakes.

### Course ID

S22830

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take All: CUL-110 and CUL-160

# BPA220 - Confection Artistry

## Overview

### Course Description

This course introduces the principles and techniques of decorative sugar work and confectionary candy. Topics include nougat, marzipan modeling, pastillage and cocoa painting, confection candy and a variety of sugar techniques including blown, spun, poured and pulled. Upon completion, students should be able to prepare edible centerpieces and confections to enhance dessert buffets and plate presentations.

### Course ID

S25780

### Credit Hours

Credit  
Hours  
3  
Min:

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

| State prerequisite                    |
|---------------------------------------|
| Type                                  |
| Prerequisite                          |
| Take All: CUL-110 and CUL-160         |
| Take CUL-110(S11030) CUL-160(S13015); |

# BPA230 - Chocolate Artistry

## Overview

### Course Description

This course provides a study in the art and craft of chocolate. Topics include chocolate tempering, piping, and molding; decorative work associated with cakes and centerpieces; and the candy production techniques of filling, enrobing and dipping. Upon completion, students should be able to properly evaluate tempered chocolate and produce a variety of chocolate candies and decorative elements for garnishing desserts.

### Course ID

S22831

### Credit Hours

Credit  
Hours  
3  
Min:

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

| State prerequisite            |
|-------------------------------|
| Type                          |
| Prerequisite                  |
| Take All: CUL-110 and CUL-160 |

# BPA230A - Chocolate Artistry Lab

## Overview

### Course Description

This course provides a laboratory experience for enhancing student skills in the art and craft of chocolate. Emphasis is placed on chocolate tempering, piping, and molding; decorative work associated with cakes and centerpieces; and candy production techniques of filling, enrobing and dipping. Upon completion, students should be able to demonstrate a basic proficiency in the preparation of decorative chocolate centerpieces, garnishes and candies.

### Course ID

S22803

### Credit Hours

Credit  
Hours  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take All: CUL-110 and CUL-160

Take CUL-110(S11030) CUL-160(S13015);

#### State concurrent or previous courses

#### Type

Corequisite

Take BPA-230

Take BPA-230(S20766);

Take CUL-110(S11030) CUL-160(S13015);

# BPA240 - Plated Desserts

## Overview

### Course Description

This course provides a study in the elements and principles of design as they relate to plated desserts. Topics include plate composition, portioning, flavor pairings, textures, temperatures, eye appeal, balance, color harmony and plate decorating/painting techniques such as stenciling and chocolate striping. Upon completion, students should be able to demonstrate competence in combining a variety of dessert components enhanced with plate decorating techniques.

### Course ID

S22832

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take All: CUL-110 and CUL-160



# BPA250 - Dessert and Bread Production

## Overview

### Course Description

This course is designed to merge artistry and innovation with the practical baking and pastry techniques utilized in a production setting. Emphasis is placed on quantity bread and roll-in dough production, plated and platter presentations, seasonal/theme product utilization and cost effectiveness. Upon completion, students should be able to plan, prepare and evaluate breads and desserts within a commercial environment and determine production costs and selling prices.

### Course ID

S23072

### Credit Hours

Credit  
Hours  
5  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
5  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 8              | 8        |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take BPA-150

Take BPA-150;

# BPA260 - Pastry and Baking Marketing

## Overview

### Course Description

This course is designed to cover the marketing concepts and merchandising trends utilized in bakery and pastry operations. Emphasis is placed on menu planning, pricing products/strategies, resale and wholesale distribution methods, legal implications, and advertising techniques. Upon completion, students should be able to create a marketing plan that will serve as a basis for a capstone experience.

### Course ID

S22834

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

| State prerequisite            |  |
|-------------------------------|--|
| Type                          |  |
| Prerequisite                  |  |
| Take All: BPA-150 and BPA-210 |  |

Take BPA-150 BPA-210(S22830);

### State concurrent or previous courses

#### Type

Corequisite

Take BPA-250

Take BPA-250(S22833);

# BPR130 - Print Reading-Construction

## Overview

### Course 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.

### Course ID

S23275

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

Billing Hours  
3

# BTB101 - Boat Building I

## Overview

### Course Description

This course introduces the modern wood and composite boat shop. Topics include maintaining, sharpening, and safely using hand and power tools; building station molds; and setting up the building jig prior to planking a boat. Upon completion, students should be able to set up a building jig for any boat and use it for the planking process.

### Course ID

S23276

### Credit Hours

Credit Hours  
10

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 5               | Load | 5     |

### Billing Hours

Billing Hours  
10

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 15             | Load | 15  |

### Simple Requisites

State concurrent or previous courses

#### Type

Corequisite

- Take DFT-100
- Take DFT-100(S12729);

# BTB102 - Boat Building II

## Overview

### Course Description

This course introduces more advanced hull development. Topics include advanced lofting, building jigs and birdcage building forms, wood and composite lamination techniques, marine finishing materials and methods, and quality control procedures. Upon completion, students should be able to build, fit out, and finish a small boat using modern fabrics, core materials, and methods of construction.

### Course ID

S23277

### Credit Hours

Credit  
Hours  
Min:  
9

| Name | Classroom Hours | Code  | Contact Hours | Load |
|------|-----------------|-------|---------------|------|
|      |                 | CLASS | 4             | 4    |

### Billing Hours

Billing  
Hours  
Min:  
9

| Name | Lab/Shop Hours | Code | Contact Hours | Load |
|------|----------------|------|---------------|------|
|      |                | LAB  | 15            | 15   |

### Simple Requisites

| State prerequisite    |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take BTB-101          |
| Take BTB-101(S13156); |

# BTB103 - Yacht Joiner Practices I

## Overview

### Course Description

This course introduces the fundamental skills and attention to detail necessary to fine yacht joinery. Emphasis is placed on fitting, mortise/tenon, and dowel joints; fitting dadoes in grooves; and building a project to close tolerances from a blueprint. Upon completion, students should be able to build a cabinet carcass with face frame, round corner posts, laminate surfaces, and a dove-tailed drawer.

### Course ID

S23278

### Credit Hours

Credit  
Hours  
Min:  
4

| Name | Classroom Hours | Code  | Contact Hours | Load |
|------|-----------------|-------|---------------|------|
|      |                 | CLASS | 2             | 2    |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name | Lab/Shop Hours | Code | Contact Hours | Load |
|------|----------------|------|---------------|------|
|      |                | LAB  | 4             | 4    |

### Simple Requisites

| Recommended concurrent or previous courses |
|--------------------------------------------|
| Type                                       |
| Corequisite                                |
| Take BTB-102                               |

Take BTB-102(S23277);

State prerequisite

Type

Prerequisite

Take BTB-101

Take BTB-101(S13156);

# BTB104 - Yacht Joiner Practices II

## Overview

### Course Description

This course covers advanced yacht joiner practices and emphasizes finishing cabinets and rough-in of yacht interiors. Topics include manufacturing and fitting moldings, door construction methods, bright work finishing, and bulkhead and cabin sole fitting and installation. Upon completion, students should be able to build raised panel doors and moldings, apply modern finishes, and rough in bulkheads, soles, and yacht furniture.

### Course ID

S23279

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Simple Requisites

Recommended concurrent or previous courses

Type  
Corequisite

|                       |
|-----------------------|
| Take BTB-105          |
| Take BTB-105(S23280); |

|                           |
|---------------------------|
| <b>State prerequisite</b> |
| <b>Type</b>               |
| Prerequisite              |
| Take BTB-103              |
| Take BTB-103(S13120);     |

|                                             |
|---------------------------------------------|
| <b>State concurrent or previous courses</b> |
| <b>Type</b>                                 |
| Corequisite                                 |
| Take BTB-102                                |
| Take BTB-102(S13171);                       |

# BTB105 - Yacht Repair/ Renovation

## Overview

### Course Description

This course introduces repair/renovation principles and methods for wood and fiberglass boats. Emphasis is placed on surveying boats for needed repairs, planning repairs, and estimating costs in tools, materials, and techniques used in repair and renovation. Upon completion, students should be able to plan and execute repairs in wood and fiberglass boats (structural and cosmetic) and execute marine refinishing techniques.

### Course ID

S23280

### Credit Hours

Credit  
Hours  
5  
Min:

|                      |             |
|----------------------|-------------|
| <b>Name</b>          | <b>Code</b> |
| Classroom Hours      | CLASS       |
| <b>Contact Hours</b> | <b>Load</b> |
| 3                    | 3           |

### Billing Hours

Billing  
Hours  
5  
Min:

|                      |             |
|----------------------|-------------|
| <b>Name</b>          | <b>Code</b> |
| Lab/Shop Hours       | LAB         |
| <b>Contact Hours</b> | <b>Load</b> |
| 4                    | 4           |

### Simple Requisites

|                           |
|---------------------------|
| <b>State prerequisite</b> |
| <b>Type</b>               |
| Prerequisite              |

Take BTB-102

Take BTB-102(S13171);

# BTB106 - Engine Install/ Systems

## Overview

### Course Description

This course familiarizes students with marine engines and related systems, installation, troubleshooting and minor repairs. Topics covered are drivetrains and cooling, fuel, exhaust, and electrical systems for a typical inboard engine. Upon completion, students should be able to install, troubleshoot, and perform minor repairs on marine engines and related systems.

### Course ID

S21974

### Credit Hours

Credit  
Hour  
s  
Min:  
5

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hour  
s  
Min:  
5

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 9              | 9           |

### Simple Requisites

#### Local Prerequisites

Type  
Prerequisite

Take BTB-108

Take BTB-108(S23843);

# BTB107 - Boat Electrical Systems

## Overview

### Course Description

This course teaches students the skills necessary to wire 12-volt direct current and 120-volt alternating current electrical systems found on modern boats. Topics covered are electrical system and wiring sizing, batteries, wire harnesses, distribution panels, electronic component installation, and electrical system troubleshooting. Upon completion, students should be able to install a complete electrical system on a mock-up yacht.

### Course ID

S21975

### Credit Hours

Credit  
Hours  
5

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
5

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 9              | 9        |

### Simple Requisites

| Local Corequisites |             |
|--------------------|-------------|
| Type               | Corequisite |

Take BTB-110 and BMS-118  
Take BTB-110 BMS-118;



# BTB108 - Boat Plumbing Systems

## Overview

### Course Description

This course is an introduction to the plumbing systems used on modern yachts. Topics will include pressurized hot water systems, water closets, sanitation systems, thru hulls, and sea cocks. Upon completion, students should be able to install heads, showers, and drains found on yachts.

### Course ID

S23843

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 6              | 6        |

### Simple Requisites

| Local Prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |
| Take BTB-107       |              |
| Take BTB-107;      |              |

# BTB109 - Yacht Rigging

## Overview

### Course Description

This course provides an introduction of Marlinspike Seamanship, rigging and tuning masts, and commissioning yachts. Topics covered are knot tying, whipping lines, standing and running rigging on spars, maintaining winches, anchoring systems and care and rigging of sails. Upon completion, students should be able to efficiently complete yacht rigging competencies to industry standards.

### Course ID

S23281

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# BTB110 - Fiberglass Boat Bldg I

## Overview

### Course Description

This course introduces fiberglass boat building using polyester and vinylester resins in conjunction with single skin and composite covered construction. Topics covered are the types and uses of resins, fabrics, and cores, and chopper and gel coat guns. Upon completion, students should be able to build a composite core boat and a single skin boat.

**Course ID**  
S21978

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
5

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
5

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 9             | 9              |      |

### Simple Requisites

| Local Corequisites       |
|--------------------------|
| Type                     |
| Corequisite              |
| Take BTB-107 and BMS-118 |
| Take BTB-107 BMS-118;    |

# BTB111 - Fiberglass Boat Bldg II

## Overview

### Course Description

This course covers the skills necessary to build fiberglass molds for hulls and decks. Topics include the proper use of tooling gel coats, proper lay-ups, heat problems during lay-ups, reinforcing techniques and resin infusion. Upon completion, students should be able to build a female mold, a "quickie" female deck mold and various "quickie" male molds for custom parts.

**Course ID**  
S21979

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
5

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
5

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 9             | 9              |      |

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take BTB-110       |
| Take BTB-110;      |

# BTB112 - Fiberglass Boat Repairs

## Overview

### Course Description

This course covers many aspects of fiberglass hull and deck repair. Topics include performing repairs on single skin hulls, composite hulls, decks and gel coats. Upon completion, students should be able to demonstrate skills necessary to repair damaged laminates to boat industry standards.

### Course ID

S21980

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# BUS110 - Introduction to Business

## Overview

### Course 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.

### Course ID

S24149

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

# BUS115 - Business Law I

## Overview

### Course 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.

### Course ID

S24153

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
3

# BUS121 - Business Math

## Overview

### Course Description

This course covers fundamental mathematical operations and their application to business problems. Topics include payroll, pricing, interest and discount, commission, taxes, and other pertinent uses of mathematics in the field of business. Upon completion, students should be able to apply mathematical concepts to business.

### Course ID

S14289

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# BUS125 - Personal Finance

## Overview

### Course 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.

**Course ID**  
S14300

**Credit Hours**

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

**Billing Hours**

**Billing Hours**  
3

# BUS135 - Principles of Supervision

## Overview

### Course 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.

**Course ID**  
S12738

**Credit Hours**

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

**Billing Hours**

**Billing Hours**  
3

### Simple Requisites

| Prerequisite          |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take BUS-110          |
| Take BUS-110(S24149); |

# BUS137 - Principles of Management

## Overview

### Course 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.

### Course ID

S24151

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

# BUS139 - Entrepreneurship I

## Overview

### Course 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.

### Course ID

S22030

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

# BUS147 - Business Insurance

## Overview

### Course Description

This course surveys the basic concepts of risk management. Topics include principles and applications of health, property, life, and casualty insurance. Upon completion, students should be able to evaluate different insurance needs and assist an organization in acquiring adequate insurance coverage.

### Course ID

S13591

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

# BUS225 - Business Finance

## Overview

### Course Description

This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management.

### Course ID

S26196

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

# BUS228 - Business Statistics

## Overview

### Course Description

This course introduces the use of statistical methods and tools in evaluating research data for business applications. Emphasis is placed on basic probability, measures of spread and dispersion, central tendency, sampling, regression analysis, and inductive inference. Upon completion, students should be able to apply statistical problem solving to business.

### Course ID

S23950

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   |               |
| 2               | Load<br>2     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  |             |
| 2              | Load<br>2   |

# BUS230 - Small Business Management

## Overview

### Course 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.

### Course ID

S11937

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   |               |
| 3               | Load<br>3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3



# BUS240 - Business Ethics

## Overview

### Course Description

This course introduces contemporary and controversial ethical issues that face the business community. Topics include moral reasoning, moral dilemmas, law and morality, equity, justice and fairness, ethical standards, and moral development. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society.

**Course ID**  
S14002

### Credit Hours

**Credit Hours**  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

**Billing Hours**  
3

# BUS253 - Leadership and Management Skills

## Overview

### Course 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.

**Course ID**  
S13328

### Credit Hours

**Credit Hours**  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

**Billing Hours**  
3

# BUS270 - Professional Development

## Overview

### Course 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.

### Course ID

S11540

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
3

# BUS285 - Business Management Issues

## Overview

### Course Description

This course covers contemporary issues that affect successful businesses and their managers and employees. Emphasis is placed on using case studies and exercises to develop analytical and problem-solving skills, ethics, quality management concepts, team skills, and effective communication. Upon completion, students should be able to apply the specific knowledge and skills covered to become more effective managers and employees.

### Course ID

S14221

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take BUS-137

Take BUS-137(S12782);

# CAR111 - Carpentry I

## Overview

### Course 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.

**Course ID**  
S16248

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
8

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
8

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 15             | 15       |

# CAR112 - Carpentry II

## Overview

### Course 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.

**Course ID**  
S16249

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
8

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
8

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 15             | 15       |

### Simple Requisites

**State prerequisite**

**Type**  
Prerequisite

Take CAR-111

Take CAR-111(S16248);

# CAR113 - Carpentry III

## Overview

### Course 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.

**Course ID**  
S11773

**Credit Hours**

**Credit Hours**  
3  
**Min:**  
6

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

**Billing Hours**

**Billing Hours**  
9  
**Min:**  
6

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 9             | 9              |      |

### Simple Requisites

| State prerequisite    |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take CAR-111          |
| Take CAR-111(S10358); |

# CAR115 - Residential Planning/Estimating

## Overview

### Course Description

This course covers project planning, management, and estimating for residential or light commercial buildings. Topics include planning and scheduling, interpretation of working drawings and specifications, estimating practices, and other related topics. Upon completion, students should be able to perform quantity take-offs and cost estimates.

**Course ID**  
S11735

**Credit Hours**

**Credit Hours**  
3  
**Min:**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

**Billing Hours**

**Billing Hours**  
3  
**Min:**  
3

### Simple Requisites

| State prerequisite    |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take BPR-130          |
| Take BPR-130(S11505); |

# CAS110 - Perspectives on Child Maltreatment and Advocacy

## Overview

### Course 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.

### Course ID

S26424

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:

# CAS120 - Cultural Awareness in Child Maltreatment & Advocacy

## Overview

### Course 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.

### Course ID

S26425

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:

# CAS210 - Professional & Systems Responses to Child Maltreatment

## Overview

### Course 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.

### Course ID

S26426

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
3

# CAS220 - Responding to the Survivor of Child Abuse

## Overview

### Course 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.

### Course ID

S26427

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
3

# CAT210 - CT Physics & Equipment

## Overview

### Course Description

This course covers the system operations and components, image processing and display, image quality, and artifacts in computed tomography. Emphasis is placed on the data acquisition components, tissue attenuation conversions, image manipulation, and factors controlling image resolution. Upon completion, students should be able to understand the physics and instrumentation used in computed tomography.

### Course ID

S12719

### Credit Hours

Credit Hours  
3

| Name          | Classroom | Code |
|---------------|-----------|------|
| Hours         | CLASS     |      |
| Contact Hours | Load      |      |
| 3             | 3         |      |

# CAT211 - CT Procedures

## Overview

### Course Description

This course is designed to cover specialized patient care, cross-sectional anatomy, contrast media, and scanning procedures in computed tomography. Emphasis is placed on patient assessment and monitoring, contrast agents' use, radiation safety, methods of data acquisition, and identification of cross-sectional anatomy. Upon completion, students should be able to integrate all facets of the imaging procedures in computed tomography.

### Course ID

S24465

### Credit Hours

Credit Hours  
4

| Name          | Classroom | Code |
|---------------|-----------|------|
| Hours         | CLASS     |      |
| Contact Hours | Load      |      |
| 4             | 4         |      |

### Billing Hours

Billing Hours  
4

# CAT231 - CT Clinical Practicum

## Overview

### Course Description

This course provides the opportunity to apply knowledge gained from classroom instruction to the computed tomography clinical setting. Emphasis is placed on patient care and positioning, scanning procedures, and image production in computed tomography. Upon completion, students should be able to assume a variety of duties and responsibilities within the computed tomography clinical environment.

### Course ID

S12160

### Credit Hours

Credit  
Hours  
3  
Min:  
11

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 33             | 33    |

# CCT110 - Introduction to Cyber Crime

## Overview

### Course Description

This course introduces and explains the various types of offenses that qualify as cyber crime activity. Emphasis is placed on identifying cyber crime activity and the response to these problems from both the private and public domains. Upon completion, students should be able to accurately describe and define cyber crime activities and select an appropriate response to deal with the problem.

### Course ID

S11628

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3



# CCT112 - Ethics & High Technology

## Overview

### Course Description

This course covers ethical considerations and accepted standard practices applicable to technological investigations and computer privacy issues relative to the cyber crime investigator. Topics include illegal and unethical investigative activities, end-justifying-the-means issues, and privacy issues of massive personal database information gathered by governmental sources. Upon completion, students should be able to examine their own value systems and apply ethical considerations in identifiable cyber crime investigations.

### Course ID

S11599

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
3

# CCT121 - Computer Crime Investigation

## Overview

### Course 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.

### Course ID

S10005

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# CCT231 - Technology Crimes & Law

## Overview

### Course Description

This course covers the applicable technological laws dealing with the regulation of cyber security and criminal activity. Topics include an examination of state, federal and international laws regarding cyber crime with an emphasis on both general and North Carolina statutes. Upon completion, students should be able to identify the elements of cyber crime activity and discuss the trends of evolving laws.

### Course ID

S12211

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# CCT250 - Network Vulnerabilities I

## Overview

### Course 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.

### Course ID

S25622

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

## Simple Requisites

### Local Prerequisites

Type  
Prerequisite

Take NET-125 or NET-110 Take CET-130

# Take NET-125(S24501) or NET-110(S21056); #  
Take CET-130;

# CCT251 - Network Vulnerabilities II

## Overview

### Course Description

This course advances students' knowledge of penetration testing, network vulnerabilities, and hacking. Topics include analyzing advanced techniques for circumventing network security hardware and software. Upon completion, students should be able to assemble test kits for multiple operating systems, scan and footprint networks, and perform advanced forensic investigation.

### Course ID

S21750

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

| State prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |
| Take CCT-250       |  |

Take CCT-250(S21749);

# CCT260 - Mobile Phone Examination

## Overview

### Course Description

This course introduces the unique skills and methodologies necessary to assist in the investigation and prosecution of cyber crimes involving mobile phones. Topics include the basics of the cellular networks as well as data extraction from GSM, iDEN and CDMA handsets. Upon completion, students should be able to use the course processes and methodologies to obtain forensic evidence from GSM, iDEN and CDMA handsets.

### Course ID

S22653

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Simple Requisites

| Prerequisite         |
|----------------------|
| Type<br>Prerequisite |

Take CET-150

Take CET-150;

# CCT289 - Capstone Project

## Overview

### Course Description

This course provides experience in cyber crime investigations or technology security audits in either the public or private domain. Emphasis is placed on student involvement with businesses or agencies dealing with technology security issues or computer crime activities. Upon completion, students should be able to successfully analyze, retrieve erased evidence and testify in mock proceedings against these criminal entrepreneurs.

### Course ID

S10238

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

#### Local Corequisite

Type  
Corequisite

Take CCT-250;

Take CCT-250(S25622);

**Local Corequisite**

**Type**  
Corequisite

Take CCT-251

Take CCT-251;

**State prerequisite**

**Type**  
Prerequisite

Take One: CCT-231 or CCT-220

Take CCT-231(S12211) or CCT-220;

# CEG111 - Introduction to GIS and GNSS

## Overview

### Course Description

This course introduces the methods and techniques used in the Geographic Information Systems (GIS) and Global Navigation Satellite Systems (GNSS) professions. Emphasis is placed on data collection and mapping using GIS software. Upon completion, students should be able to use GNSS technologies to collect field data and create GIS maps.

### Course ID

S23510

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 4              | 4           |

# CEG211 - Hydrology & Erosion Control

## Overview

### Course Description

This course introduces basic engineering principles and characteristics of hydrology, erosion and sediment control. Topics include stormwater runoff, gravity pipe flow, open channel flow, low impact development (LID), erosion control devices and practices. Upon completion, students should be able to analyze and design gravitational drainage structures, identify LID and erosion control elements, and prepare a stormwater drainage plan.

### Course ID

S26389

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# CEG230 - Subdivision Planning & Design

## Overview

### Course Description

This course covers the planning and design concepts related to subdivisions including analysis of development standards, engineering, and the creation of CAD drawings. Topics include applicable codes, lot creation, roadway system layout, stormwater drainage, low impact development (LID) concepts, and related topics. Upon completion, students should be able to prepare a set of subdivision plans.

### Course ID

S23533

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 6              | 6        |

### Simple Requisites

State prerequisite

#### Type

Prerequisite

Take One Course from Each Set: SET 1: CEG-151,

DFT-151, or EGR-120 SET 2: CEG-211 SET 3:  
SRV-111 or CIV-215

# Take CEG-151 DFT-151 or EGR-120(S20678); #  
Take 1 courses; From courses CEG-211(S23515);  
# Take SRV-111 or CIV-215(S23476);

# CET125 - Voice and Data Cabling

## Overview

### Course Description

This course provides an understanding of the industry and its worldwide standards, types of media and cabling, physical and logical networks, including signal transmission. Topics include network design documentation, part list set-up, pulling and mounting cable, cable management, wiring closets, patch panel installation and termination including cable testing. Upon completion, students should be able to understand documentation, design, installation and safety issues associated with voice and data cabling.

### Course ID

S20154

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |



# CET130 - Operating Systems Principles

## Overview

### Course 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.

### Course ID

S21771

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# CET150 - Computer Forensics I Overview

### Course Description

This course is an introduction to computer forensic concepts, with emphasis on computer forensic methods and best practices. Topics include computer system analysis, physical and logical storage methods for different types of media, tools to recover and analyze data from storage media, system security. Upon completion, students should be able to use diagnostic and investigative techniques to identify and retrieve data from various types of computer media.

### Course ID

S21772

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Simple Requisites

#### Prerequisite

#### Type

Prerequisite

Take CTS-120 or CET-130

# CET172 - Internet Technologies

## Overview

### Course Description

The goal of this course is to provide an introduction to Internet technologies and prepare students to pass vendor independent internet technology certification exams. Topics cover using different Internet protocols, programming on the Internet, the OSI model, the Internet infrastructure, security, and e-commerce. Upon completion, students should be prepared to take vendor independent Internet technology certification exams.

### Course ID

S21775

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# CET245 - Internet Servers

## Overview

### Course Description

This course covers the setup and management of Internet server hardware and software. Topics include TCP/IP, FTP, SMTP, and HTTP; installation and configuration of server software for web, FTP, DNS, mail, and other services. Upon completion, students should be able to set up and maintain Internet servers.

### Course ID

S21578

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Simple Requisites

#### Prerequisite

Type  
Prerequisite

- Take CET-130
- Take CET-130;

# CET250 - Computer Forensics II

## Overview

### Course Description

This course is a study in computer forensic practices with emphasis placed on methods used for prevention, detection, and apprehension of perpetrators of cyber-criminal activity. Topics include the roles of Chief Security Officers in the securing of system breaches, vulnerabilities, network and server security issues, OS and application security risks. Upon completion students should be able to identify and collect evidence to prove unauthorized and inappropriate access on computer systems and networks.

**Course ID**  
S21781

**Credit Hours**

**Credit Hour  
s  
Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

**Billing Hours**

**Billing Hour  
s  
Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

| Prerequisite      |  |
|-------------------|--|
| Type Prerequisite |  |
| Take CET-150      |  |

Take CET-150;

# CHM115 - Concepts in Chemistry

## Overview

### Course Description

This course introduces basic chemical concepts and their applications to daily life for non-science majors. Topics include air pollution, global warming, energy, world of polymers, water and its importance to a technological society, food, drugs, and nuclear chemistry. Upon completion, students should be able to discuss, apply, and appreciate the impact of chemistry on modern society.

**Course ID**  
S11771

**Credit Hours**

**Credit Hour  
s  
Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

**Billing Hours**

**Billing Hour  
s  
Min:**  
3

# CHM115A - Concepts in Chemistry Lab

## Overview

### Course Description

This course is a laboratory for CHM 115. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 115. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical concepts presented in CHM 115.

### Course ID

S12468

### Credit Hours

Credit  
Hours  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
Min:  
1

### Simple Requisites

State concurrent or previous courses

#### Type

Corequisite

Take CHM-115  
Take CHM-115;

# CHM130 - General, Organic, & Biochemistry

## Overview

### Course 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.

### Course ID

S12547

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
Min:  
3

### Simple Requisites

Local Prerequisite

#### Type

Prerequisite

Take DRE-098, ENG-002(with a minimum grade of P2), BSP-4002 (with a minimum grade of P2),

RED-090, ENG-095, ENG-011, or ENG-025  
Take 1 group; # Take DRE-098(S23643); # Take  
ENG-002; From rule RMINP2; # Take  
BSP-4002(L27301); From rule BSPMINP2; # Take  
RED-090; # Take ENG-095; # Take ENG-011; #  
Take ENG-025;

# CHM130A - General, Organic, & Biochemistry Lab

## Overview

### Course 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.

### Course ID

S10032

### Credit Hours

Credit  
Hours  
1  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Billing Hours

Billing  
Hours  
1  
Min:

### Simple Requisites

#### Local English Prerequisite

Type  
Prerequisite

Take DRE-098, ENG-002(with a minimum grade of P2), BSP-4002 (with a minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(L27301); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

State concurrent or previous courses

Type

Corequisite

Take CHM-130

Take CHM-130;

# CHM131 - Introduction to Chemistry

## Overview

### Course 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.

### Course ID

S12692

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

Local English Prerequisite

Type

Prerequisite

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2),

RED-090, ENG-095, ENG-011, ENG-111 or  
ENG-025

Take 1 group; # Take DRE-098(S23643); # Take  
ENG-002; From rule RMINP2; # Take  
BSP-4002(S25167); From rule BSPMINP2; # Take  
RED-090; # Take ENG-095; # Take ENG-011; #  
Take ENG-111(S26393); # Take ENG-025;

Local Recommended Concurrent Or Previous  
Courses

Type  
Corequisite

Take CHM-131A  
  
Take CHM-131A;

Local Math Prerequisite

Type  
Prerequisite

Take 1 group: Group 1: DMA-010 DMA-020  
DMA-030 DMA-040 DMA-050 DMA-060  
DMA-070 DMA-080 Group 2: MAT-003(with  
minimum grade of P2) Group 3: BSP-4003(with  
minimum grade of P2) Group 4: DMA-065 Group  
5: MAT-035  
  
Take 1 group; # Take DMA-010 DMA-020  
DMA-030 DMA-040(S24983) DMA-050(S24984)  
DMA-060(S24985) DMA-070(S24987)  
DMA-080(S24988); # Take MAT-003; From rule  
RMINP2M; # Take BSP-4003(S25168); From rule  
BSPMINP2; # Take DMA-065(S25064); # Take  
MAT-035;

# CHM131A - Introduction to Chemistry Lab

## Overview

### Course 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.

### Course ID

S12403

### Credit Hours

Credit  
Hours  
1  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Billing Hours

Billing  
Hours  
1  
Min:

## Simple Requisites

Local English Prerequisite

Type  
Prerequisite

Take DRE-098, ENG-002(with minimum grade of  
P2), BSP-4002 (with minimum grade of P2),  
RED-090, ENG-095, ENG-011, ENG-111 or  
ENG-025

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

### Local Math Prerequisite

#### Type

Prerequisite

Take 1 group: Group 1: DMA-010 DMA-020 DMA-030 DMA-040 DMA-050 DMA-060 DMA-070 DMA-080 Group 2: MAT-003(with minimum grade of P2) Group 3: BSP-4003(with minimum grade of P2) Group 4: DMA-065 Group 5: MAT-035

Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040(S24983) DMA-050(S24984) DMA-060(S24985) DMA-070(S24987) DMA-080(S24988); # Take MAT-003; From rule RMINP2M; # Take BSP-4003(S25168); From rule BSPMINP2; # Take DMA-065(S25064); # Take MAT-035;

### State concurrent or previous courses

#### Type

Corequisite

Take CHM-131  
Take CHM-131;

# CHM132 - Organic and Biochemistry

## Overview

### Course 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.

### Course ID

S20490

### Credit Hours

Credit  
Hour  
s  
Min:  
4

### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take one set: Set 1: CHM-131 and CHM-131A Set



2: CHM-151

Take 1 group; # Take CHM-131 CHM-131A; # Take CHM-151;

# CHM135 - Survey of Chemistry I

## Overview

### Course Description

This course provides an introduction to inorganic chemistry. Emphasis is placed on measurement, atomic structure, bonding, molecular geometry, nomenclature, reactions, the mole concept, stoichiometric calculations, states of matter, and the gas laws. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields.

### Course ID

S12720

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# CHM136 - Survey of Chemistry II

## Overview

### Course Description

This course is a continuation of CHM 135 with further study of inorganic reactions and an introduction to organic, biological, and nuclear chemistry. Topics include solutions, acid-base theory, redox reactions, chemical kinetics, organic chemistry, biochemistry, and nuclear chemistry. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields.

### Course ID

S12583

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

## Simple Requisites

State prerequisite

Type

Prerequisite

Take CHM-135

Take CHM-135;

# CHM151 - General Chemistry I

## Overview

### Course 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.

### Course ID

S12258

### Credit Hours

Credit  
Hours  
4

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |

| Contact Hours | Load |
|---------------|------|
| 3             | 3    |

### Billing Hours

Billing  
Hours  
4

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |

| Contact Hours | Load |
|---------------|------|
| 3             | 3    |

### Simple Requisites

#### Local Math Prerequisite

#### Type

Prerequisite

Take 1 group: Group 1: DMA-010 DMA-020  
DMA-030 DMA-040 DMA-050 Group 2:  
MAT-003(with a minimum grade of P2) Group 3:

BSP-4003(with a minimum grade of P2) Group 4:  
DMA-065 Group 5: MAT 021 Group 6: MAT 121  
Group 7: MAT 043 Group 8: MAT 143 Group 9:  
MAT 052 Group 10: MAT 152 Group 11: MAT  
071 Group 12: MAT 171 Group 13: MAT 025  
Group 14: MAT 035 Must be completed prior to  
taking this course.

Take 1 group; # Take DMA-010 DMA-020  
DMA-030 DMA-040(S24983)  
DMA-050(S24984); # Take MAT-003; From rule  
RMINP2M; # Take BSP-4003(S25168); From rule  
BSPMINP2; # Take DMA-065(S25064); # Take  
MAT-021; # Take MAT-121(S25429); # Take  
MAT-043; # Take MAT-143(S25430); # Take  
MAT-052; # Take MAT-152(S25431); # Take  
MAT-071(S25141); # Take MAT-171(S25432); #  
Take MAT-025; # Take MAT-035;

# CHM152 - General Chemistry II

## Overview

### Course 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.

### Course ID

S12137

### Credit Hours

**Credit Hours**  
4

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

**Billing Hours**  
4

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take CHM-151

# CHM251 - Organic Chemistry I

## Overview

### Course 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.

### Course ID

S13152

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
4

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take CHM-152

Take CHM-152;

# CHM252 - Organic Chemistry II

## Overview

### Course 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.

### Course ID

S13184

### Credit Hours

Credit  
Hours  
4

| Name  | Classroom Code |
|-------|----------------|
| Hours | CLASS          |

  

| Contact Hours | Load |
|---------------|------|
| 3             | 3    |

### Billing Hours

Billing  
Hours  
4

| Name  | Lab/Shop Code |
|-------|---------------|
| Hours | LAB           |

  

| Contact Hours | Load |
|---------------|------|
| 3             | 3    |

### Simple Requisites

State prerequisite

Type

Prerequisite

Take CHM-251

Take CHM-251;

# CHM263 - Analytical Chemistry

## Overview

### Course Description

This course covers the knowledge and laboratory skills needed to perform chemical analysis. Emphasis is placed on developing laboratory techniques used in the separation, identification, and quantification of selected substances. Upon completion, students should be able to perform laboratory techniques employed in substance identification and volumetric analysis and interpret the results.

### Course ID

S23614

### Credit Hours

Credit  
Hours  
5

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hours  
5

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

| State prerequisite               |
|----------------------------------|
| Type                             |
| Prerequisite                     |
| Take One: CHM-132 or CHM-152     |
| Take CHM-132(S20490) or CHM-152; |

# CHM271 - Biochemical Principles

## Overview

### Course Description

This course covers fundamental principles of biochemistry. Topics include structures, properties, reactions, and mechanisms of biomacromolecules including amino acids, peptides, proteins, carbohydrates and nucleic acids, enzymatic metabolic pathways, and biochemical genetics. Upon completion, students should be able to demonstrate an understanding of fundamental biochemical processes.

### Course ID

S11454

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take CHM-252       |
| Take CHM-252;      |

# CIS110 - Introduction to Computers

## Overview

### Course 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. Students registering for this course should be aware a Windows-based PC/Laptop is required to take this course. Chromebooks, tablets, or Apple-based OS products will not work with the content of this course.

Students registering for this course should be aware a Windows-based PC/Laptop is required to take this course. Chromebooks, tablets, or Apple-based OS products will not work with the content of this course.

### Course ID

S21058

### Credit Hours

Credit Hours  
3

|                 |            |
|-----------------|------------|
| Name            |            |
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing Hours  
3

|                |          |
|----------------|----------|
| Name           |          |
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# CIS111 - Basic PC Literacy

## Overview

### Course Description

This course provides an overview of computer concepts. Emphasis is placed on the use of personal computers and software applications for personal and fundamental workplace use. Upon completion, students should be able to demonstrate basic personal computer skills. Students registering for this course should be aware a Windows-based PC/Laptop is required to take this course. Chromebooks, tablets, or Apple-based OS products will not work with the content of this course.

### Course ID

S21059

### Credit Hours

Credit Hours  
2

|                 |            |
|-----------------|------------|
| Name            |            |
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

### Billing Hours

Billing Hours  
2

|                |          |
|----------------|----------|
| Name           |          |
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# CIS115 - Introduction to Programming and Logic

## Overview

### Course 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.

### Course ID

S25440

### Credit Hours

Credit Hour  
s  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hour  
s  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Simple Requisites

| State prerequisite                     |              |
|----------------------------------------|--------------|
| Type                                   | Prerequisite |
| Take One Set: Set 1: DMA-010, DMA-020, |              |

|                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DMA-030, and DMA-040 Set 2: DMA-025 and DMA-040 Set 3: MAT-121 Set 4: MAT-171 Set 5: MAT-003 Set 6: BSP-4003                                                                           |
| Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040(S24983); # Take DMA-025 DMA-040(S24983); # Take MAT-121(S25429); # Take MAT-171(S25432); # Take MAT-003; # Take BSP-4003(S25168); |

# CIV125 - Civil/Surveying CAD

## Overview

### Course 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.

### Course ID

S21521

### Credit Hours

Credit Hour  
s  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

Billing Hour  
s  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 6              | 6        |



# CJC111 - Introduction to Criminal Justice

## Overview

### Course 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.

### Course ID

S10631

### Credit Hours

Credit Hours  
3

| Name | Classroom Hours | Code  | Contact Hours | Load |
|------|-----------------|-------|---------------|------|
|      |                 | CLASS | 3             | 3    |

### Billing Hours

Billing Hours  
3

# CJC112 - Criminology Overview

### Course 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.

### Course ID

S10598

### Credit Hours

Credit Hours  
3

| Name | Classroom Hours | Code  | Contact Hours | Load |
|------|-----------------|-------|---------------|------|
|      |                 | CLASS | 3             | 3    |

### Billing Hours

Billing Hours  
3

# CJC113 - Juvenile Justice

## Overview

### Course 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.

**Course ID**  
S10602

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
3

# CJC114 - Investigative Photography

## Overview

### Course Description

This course covers the operation of digital photographic equipment and its application to criminal justice. Topics include the use of digital cameras, storage of digital images, the retrieval of digital images and preparation of digital images as evidence. Upon completion, students should be able to demonstrate and explain the role and use of digital photography, image storage and retrieval in criminal investigations.

**Course ID**  
S20900

### Credit Hours

**Credit Hours**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

**Billing Hours**  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# CJC120 - Interviews/ Interrogations

## Overview

### Course 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.

### Course ID

S11674

### Credit Hours

Credit Hours  
3  
Min:  
2

### Billing Hours

Billing Hours  
3  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# CJC121 - Law Enforcement Operations

## Overview

### Course 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.

### Course ID

S11746

### Credit Hours

Credit Hours  
3  
Min:  
3

### Billing Hours

Billing Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

# CJC122 - Community Policing

## Overview

### Course 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.

**Course ID**  
S11648

### Credit Hours

**Credit Hour**  
**Hours**  
**Min:**  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

**Billing Hour**  
**Hours**  
**Min:**  
3

# CJC131 - Criminal Law

## Overview

### Course 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.

**Course ID**  
S11110

### Credit Hours

**Credit Hour**  
**Hours**  
**Min:**  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

**Billing Hour**  
**Hours**  
**Min:**  
3

# CJC132 - Court Procedure & Evidence

## Overview

### Course 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.

### Course ID

S11046

### Credit Hours

Credit  
Hours  
3

|                 |            |
|-----------------|------------|
| Name            |            |
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

# CJC141 - Corrections

## Overview

### Course 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.

### Course ID

S12643

### Credit Hours

Credit  
Hours  
3

|                 |            |
|-----------------|------------|
| Name            |            |
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

# CJC151 - Introduction to Loss Prevention

## Overview

### Course 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.

### Course ID

S10203

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

# CJC152 - Introduction to Security and Protective

## Overview

### Course Description

This course introduces the various components, processes, and operational characteristics associated with private security and loss prevention services. Topics include armed/unarmed security guard/officer hiring criteria including licensing, job responsibilities, career pathways, professional conduct and communication, public relations, emergency procedures, law, first aide, legal issues and liability, workplace violence, patrol techniques, and the security industry. Upon completion, students should be able to evaluate career options and define and describe the major system components, processes, and operational characteristics associated with the private security industry.

### Course ID

S25262

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

# CJC153 - Private Security Operations

## Overview

### Course Description

This course introduces the various operations associated with private security and loss prevention services. Topics include strategies for protecting individuals and company assets, report writing, interview techniques, crime and accident prevention, courtroom procedures, observation techniques, traffic direction, surveillance, substance abuse, law enforcement relationships, and emergency procedures. Upon completion, students should be able to demonstrate an understanding of the various operational characteristics common to the private security industry.

### Course ID

S25264

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

# CJC154 - Private Security Business

## Overview

### Course Description

This course introduces the business and managerial aspects specific to private security and loss prevention services. Topics include profitability, personnel management, finances, rules, policies, and law, organizational structure, sales management, and issues specific to private security and loss prevention services. Upon completion, students should be able to explain the basic characteristics required of an effective private security and loss prevention services business.

### Course ID

S25265

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

# CJC160 - Terrorism: Underlying Issues

## Overview

### Course 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.

### Course ID

S20701

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

# CJC170 - Critical Incident Management for Public Safety

## Overview

### Course Description

This course prepares the student to specialize in the direct response, operations, and management of critical incidents. Emphasis is placed upon the theoretical and applied models to understand and manage disasters, terrorism, and school/work place violence. Upon completion, the student should be able to identify and discuss managerial techniques legal issues, and response procedures to critical incidents.

### Course ID

S20591

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3



# CJC212 - Ethics & Community Relations

## Overview

### Course 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.

### Course ID

S10970

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

# CJC213 - Substance Abuse Overview

### Course 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.

### Course ID

S10983

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

# CJC214 - Victimology

## Overview

### Course Description

This course introduces the study of victims. Emphasis is placed on roles/characteristics of victims, victim interaction with the criminal justice system and society, current victim assistance programs, and other related topics. Upon completion, students should be able to discuss and identify victims, the uniqueness of victims' roles, and current victim assistance programs.

**Course ID**  
S10951

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

### Billing Hours

**Billing Hours**  
3

# CJC215 - Organization & Administration

## Overview

### Course Description

This course introduces the components and functions of organization and administration as it applies to the agencies of the criminal justice system. Topics include operations/functions of organizations; recruiting, training, and retention of personnel; funding and budgeting; communications; span of control and discretion; and other related topics. Upon completion, students should be able to identify and discuss the basic components and functions of a criminal justice organization and its administrative operations.

**Course ID**  
S11008

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

### Billing Hours

**Billing Hours**  
3

# CJC221 - Investigative Principles

## Overview

### Course 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.

### Course ID

S12498

### Credit Hours

Credit Hours  
3  
Min: 4

### Billing Hours

Billing Hours  
2  
Min: 4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# CJC222 - Criminalistics

## Overview

### Course 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.

### Course ID

S12396

### Credit Hours

Credit Hours  
3  
Min: 3

### Billing Hours

Billing Hours  
3  
Min: 3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

# CJC225 - Crisis Intervention

## Overview

### Course 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.

### Course ID

S12466

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

# CJC231 - Constitutional Law

## Overview

### Course 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.

### Course ID

S10090

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

# CJC232 - Civil Liability

## Overview

### Course 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.

### Course ID

S10037

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

# CJC233 - Correctional Law

## Overview

### Course Description

This course introduces statutory/case law pertinent to correctional concepts, facilities, and related practices. Topics include examination of major legal issues encompassing incarceration, probation, parole, restitution, pardon, restoration of rights, and other related topics. Upon completion, students should be able to identify/discuss legal issues which directly affect correctional systems and personnel.

### Course ID

S10073

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

# CJC240 - Law Enforcement Management & Supervision

## Overview

### Course Description

This course provides a study of the best known methods and practices of police leadership and management. Topics include the role of the manager in law enforcement, communications, time-management in law enforcement, managing problems, training and law enforcement productivity. Upon completion, students should be able to identify and discuss methods and practices capable of moving law enforcement agencies forward into the twenty-first century.

### Course ID

S25334

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

# CMT112 - Construction Management I

## Overview

### Course Description

This course introduces students to the field of construction management technology. Topics include job planning, work methods, materials, equipment, and other related topics. Upon completion, students should be able to demonstrate basic knowledge of methods, materials, equipment, and the logical sequence of a construction project.

### Course ID

S21745

### Credit Hours

Credit Hours  
6

### Billing Hours

Billing Hours  
6

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 4             | 4               |       |

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

## Simple Requisites

### Local Prerequisites

Type  
Prerequisite

Take CST-111 and CMT-214;

Take CST-111 CMT-214;

# CMT120 - Codes and Inspections

## Overview

### Course 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.

### Course ID

S23269

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:

# CMT210 - Construction Management Fundamentals

## Overview

### Course 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.

### Course ID

S23270

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:

# CMT212 - Total Safety Performance

## Overview

### Course 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.

### Course ID

S20398

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type<br>Corequisite                  |

Take CMT-210  
Take CMT-210(S13450);



# CMT214 - Planning and Scheduling

## Overview

### Course 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.

### Course ID

S13439

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take All: CMT-210 and BPR-130  
Take CMT-210(S13450) BPR-130(S11505);

# CMT218 - Human Relations Issues

## Overview

### Course Description

This course provides instruction on human relations issues as they relate to construction project supervision. Topics include relationships, human behavior, project staffing issues, teamwork, effective communication networks, laws and regulations, and identifying and responding to conflict, crisis, and discipline. Upon completion, the student will demonstrate an understanding of the importance of human relations in the success of a construction project.

### Course ID

S13461

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
3

### Simple Requisites

| State prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take CMT-210

Take CMT-210(S13450);

# COM110 - Introduction to Communication

## Overview

### Course Description

This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal group, public, intercultural, and mass communication situations. Upon completion, students should be able to explain and illustrate the forms and purposes of human communication in a variety of contexts.

### Course ID

S13264

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
3

# COM111 - Voice and Diction I

## Overview

### Course Description

This course provides guided practice in the proper production of speech. Emphasis is placed on improving speech, including breathing, articulation, pronunciation, and other vocal variables. Upon completion, students should be able to demonstrate effective natural speech in various contexts.

**Course ID**  
S13362

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
3

# COM120 - Introduction to Interpersonal Communication

## Overview

### Course Description

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations.

**Course ID**  
S21722

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
3

# COM130 - Nonverbal Communication

## Overview

### Course Description

This course introduces the contemporary study of nonverbal communication in daily life. Topics include haptics, kinesics, proxemics, facial displays, and appearance. Upon completion, students should be able to analyze/interpret nonverbal communication and demonstrate greater awareness of their own nonverbal communication habits.

### Course ID

S22359

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite               |
|----------------------------------|
| Type                             |
| Prerequisite                     |
| Take One: COM-110 or COM-120     |
| Take COM-110 or COM-120(S21722); |

# COM140 - Introduction to Intercultural Communication

## Overview

### Course Description

This course introduces techniques of cultural research, definitions, functions, characteristics, and impacts of cultural differences in public address. Emphasis is placed on how diverse backgrounds influence the communication act and how cultural perceptions and experiences determine how one sends and receives messages. Upon completion, students should be able to demonstrate an understanding of the principles and skills needed to become effective in communicating outside one's primary culture.

### Course ID

S22118

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| Local English Prerequisite |
|----------------------------|
| Type                       |
| Prerequisite               |

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

# COM150 - Introduction to Mass Communication

## Overview

### Course Description

This course introduces print and electronic media and the new information technologies in terms of communication theory and as economic, political, and social institutions. Topics include the nature, history, functions, and responsibilities of mass communication industries in a global environment and their role and impact in American society. Upon completion, students should be able to demonstrate awareness of the pervasive nature of mass media and how media operate in an advanced post-industrial society.

### Course ID

S22466

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |

Take ENG-111

Take ENG-111(S13673);

# COM160 - Small Group Communication

## Overview

### Course Description

This course provides an overview of the theory, practice, and critical analysis of communication in the small group setting. Emphasis is placed on group development, conflict, and conformity; leadership skills and styles; group roles and ranks; and decision making, problem solving, and conflict resolution. Upon completion, students should be able to apply topics of gender, culture, and social-emotional functions within group settings.

### Course ID

S21739

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

Billing  
Hours  
3

# COM231 - Public Speaking

## Overview

### Course 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.

### Course ID

S12601

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

Billing  
Hours  
3

# COM251 - Debate I

## Overview

### Course 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.

### Course ID

S12166

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# COS111 - Cosmetology Concepts I

## Overview

### Course 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.

### Course ID

S12363

### Credit Hours

Credit  
Hours  
4  
Min:  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 4             | 4               |       |

### Billing Hours

Billing  
Hours  
4  
Min:  
4

## Simple Requisites

State concurrent or previous courses

Type  
Corequisite

- Take COS-112
- Take COS-112;

# COS112 - Salon I

## Overview

### Course 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.

### Course ID

S12316

### Credit Hours

Credit  
Hours  
8  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 24             | 24   |

### Billing Hours

Billing  
Hours  
8  
Min:

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type<br>Corequisite                  |
| Take COS-111                         |
| Take COS-111;                        |

# COS113 - Cosmetology Concepts II

## Overview

### Course 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.

### Course ID

S24638

### Credit Hours

Credit  
Hours  
4  
Min:

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 4               | 4     |

### Billing Hours

Billing  
Hours  
4  
Min:

### Simple Requisites

|                               |
|-------------------------------|
| State prerequisite            |
| Type<br>Prerequisite          |
| Take All: COS-111 and COS-112 |
| Take COS-111 COS-112;         |



# COS114 - Salon II

## Overview

### Course 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.

### Course ID

S24639

### Credit Hours

Credit  
Hours  
8  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 24             | 24   |

### Billing Hours

Billing  
Hours  
8  
Min:

### Simple Requisites

|                               |
|-------------------------------|
| State prerequisite            |
| Type<br>Prerequisite          |
| Take All: COS-111 and COS-112 |
| Take COS-111 COS-112;         |

# COS115 - Cosmetology Concepts III

## Overview

### Course 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.

### Course ID

S24640

### Credit Hours

Credit  
Hours  
4  
Min:

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 4               | 4     |

### Billing Hours

Billing  
Hours  
4  
Min:

### Simple Requisites

|                       |
|-----------------------|
| Local Requisite       |
| Type<br>Corequisite   |
| Take COS-116;         |
| Take COS-116(S24641); |

**State prerequisite**

**Type**  
Prerequisite

Take All: COS-111 and COS-112

Take COS-111 COS-112;

# COS116 - Salon III

## Overview

### Course 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.

### Course ID

S24641

### Credit Hours

Credit  
Hours  
4  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 12             | 12       |

### Billing Hours

Billing  
Hours  
4  
Min:  
4

## Simple Requisites

**Local Requisite**

**Type**  
Corequisite

Take COS-115

Take COS-115(S24640);

**State prerequisite**

**Type**  
Prerequisite

Take All: COS-111 and COS-112

Take COS-111 COS-112;

# COS117 - Cosmetology Concepts IV

## Overview

### Course 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.

### Course ID

S24642

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

### Simple Requisites

**Local Prerequisite**

**Type**  
Prerequisite

Take COS-113 or COS-115

Take COS-113(S24638) or COS-115(S24640);

**State prerequisite**

**Type**  
Prerequisite

Take All: COS-111 and COS-112

Take COS-111 COS-112;

# COS118 - Salon IV

## Overview

### Course 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.

### Course ID

S24643

### Credit Hours

Credit  
Hours  
7  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 21             | 21       |

### Billing Hours

Billing  
Hours  
7  
Min:

## Simple Requisites

**Local Prerequisite**

**Type**  
Prerequisite

Take COS-114 or COS-116

Take COS-114(S24639) or COS-116(S24641);

**State prerequisite**

**Type**  
Prerequisite

Take All: COS-111 and COS-112

Take COS-111 COS-112;

# COS119 - Esthetics Concepts I

## Overview

**Course 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.

**Course ID**  
S12170

**Credit Hours**

**Credit Hour**  
**s**  
**Min:**  
2

| Name            |                      |
|-----------------|----------------------|
| Classroom Hours | <b>Code</b><br>CLASS |
| Contact         |                      |
| <b>Hours</b>    | <b>Load</b>          |
| 2               | 2                    |

**Billing Hours**

**Billing Hour**  
**s**  
**Min:**  
2

## Simple Requisites

**Local Corequisite**

**Type**  
Corequisite

Take COS-120

Take COS-120(S10851);

# COS120 - Esthetics Salon I

## Overview

### Course 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.

### Course ID

S10851

### Credit Hours

Credit  
Hours  
6

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 18             | 18   |

### Billing Hours

Billing  
Hours  
6

### Simple Requisites

| Recommended concurrent or previous courses |
|--------------------------------------------|
| Type                                       |
| Corequisite                                |
| Take COS-119                               |
| Take COS-119;                              |

# COS125 - Esthetics Concepts II

## Overview

### Course 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.

### Course ID

S10785

### Credit Hours

Credit  
Hours  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hours  
2

### Simple Requisites

| Local Prerequisite            |
|-------------------------------|
| Type                          |
| Prerequisite                  |
| Take COS-119 COS-120          |
| Take COS-119 COS-120(S10851); |

| Local Recommended Concurrent Or Previous Courses |
|--------------------------------------------------|
|--------------------------------------------------|

**Type**  
Corequisite

Take COS-126

Take COS-126(S10869);

# COS126 - Esthetics Salon II

## Overview

### Course 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.

### Course ID

S24328

### Credit Hours

Credit  
Hours  
6

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 18             | 18       |

### Billing Hours

Billing  
Hours  
6

## Simple Requisites

**Local Requisite**  
**Type**  
Prerequisite

Take COS-119 COS-120

Take COS-119 COS-120(S10851);

**Local Requisite**

**Type**  
Corequisite

Take COS-125

Take COS-125;

# COS223 - Contemporary Hair Coloring

## Overview

### Course 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.

### Course ID

S10820

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 1               | 1             |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

**Local Requisite**

**Type**  
Prerequisite

Take COS-113 COS-114

Take COS-113(S24638) COS-114(S24639);



**State prerequisite**

**Type**  
Prerequisite

Take All: COS-111 and COS-112

Take COS-111 COS-112;

# COS224 - Trichology & Chemistry

## Overview

### Course Description

This course is a study of hair and the interaction of applied chemicals. Emphasis is placed on pH actions and the reactions and effects of chemical ingredients. Upon completion, students should be able to demonstrate an understanding of chemical terminology, pH testing, and chemical reactions on hair.

### Course ID

S10836

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

**Local Requisite**

**Type**  
Prerequisite

Take COS-111 COS-112

Take COS-111 COS-112;

# COS240 - Contemporary Design

## Overview

### Course Description

This course covers methods and techniques for contemporary designs. Emphasis is placed on contemporary designs and other related topics. Upon completion, students should be able to demonstrate and apply techniques associated with contemporary design.

### Course ID

S10391

### Credit Hours

Credit Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

Billing Hours  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Simple Requisites

|                               |
|-------------------------------|
| State prerequisite            |
| Type<br>Prerequisite          |
| Take All: COS-111 and COS-112 |
| Take COS-111 COS-112;         |

# COS260 - Design Applications Overview

## Course Description

This course provides an overview of the design concepts used in cosmetology. Topics include the application of art principles and elements to artistically design hair, nails, and make-up and other related topics. Upon completion, students should be able to demonstrate knowledge and techniques associated with design concepts.

### Course ID

S11199

### Credit Hours

Credit Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

Billing Hours  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Simple Requisites

|                       |
|-----------------------|
| Local Requistes       |
| Type<br>Prerequisite  |
| Take COS-111 COS-112; |
| Take COS-111 COS-112; |

# COS271 - Instructor Concepts I

## Overview

### Course 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.

**Course ID**  
S11990

### Credit Hours

**Credit Hours**  
5

| Name            |  | Code  |  |
|-----------------|--|-------|--|
| Classroom Hours |  | CLASS |  |
| Contact Hours   |  | Load  |  |
| 5               |  | 5     |  |

### Billing Hours

**Billing Hours**  
5

### Simple Requisites

| State concurrent or previous courses |  |
|--------------------------------------|--|
| Type                                 |  |
| Corequisite                          |  |
| Take COS-272                         |  |
| Take COS-272;                        |  |

# COS272 - Instructor Practicum I

## Overview

### Course 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.

**Course ID**  
S12026

### Credit Hours

**Credit Hours**  
7

| Name           |  | Code |  |
|----------------|--|------|--|
| Lab/Shop Hours |  | LAB  |  |
| Contact Hours  |  | Load |  |
| 21             |  | 21   |  |

### Billing Hours

**Billing Hours**  
7

### Simple Requisites

| State concurrent or previous courses |  |
|--------------------------------------|--|
| Type                                 |  |
| Corequisite                          |  |
| Take COS-271                         |  |
| Take COS-271;                        |  |

# COS273 - Instructor Concepts II

## Overview

### Course 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.

### Course ID

S11965

### Credit Hours

Credit  
Hours  
5  
Min:

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 5               | 5             |

### Billing Hours

Billing  
Hours  
5  
Min:

### Simple Requisites

**State prerequisite**

**Type**  
Prerequisite

Take All: COS-271 and COS-272

Take COS-271 COS-272;

State concurrent or previous courses

**Type**  
Corequisite

Take COS-274

Take COS-274;

# COS274 - Instructor Practicum II

## Overview

### Course 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.

### Course ID

S12083

### Credit Hours

Credit Hour  
s  
Min:  
7

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 21             | 21       |

### Billing Hours

Billing Hour  
s  
Min:  
7

### Simple Requisites

| State prerequisite            |  |
|-------------------------------|--|
| Type                          |  |
| Prerequisite                  |  |
| Take All: COS-271 and COS-272 |  |
| Take COS-271 COS-272;         |  |

State concurrent or previous courses

#### Type

Corequisite

Take COS-273

Take COS-273;

# CSC112 - Machine Learning Computation

## Overview

### Course Description

This course covers the underlying foundations upon which machine learning solutions are created.

Emphasis is placed on the mathematical foundations of machine learning concepts. Upon completion, students should be able to apply the underlying computations of machine learning systems.

### Course ID

S25841

### Credit Hours

Credit Hour  
s  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing Hour  
s  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# CSC113 - Artificial Intelligence Fundamentals

## Overview

### Course 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.

### Course ID

S26510

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# CSC114 - Artificial Intelligence I Overview

### Course 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.

### Course ID

S25540

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# CSC115 - Machine Learning I

## Overview

### Course 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.

**Course ID**  
S25541

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

# CSC117 - Artificial Intelligence Tools I

## Overview

### Course 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.

**Course ID**  
S26060

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

# CSC120 - Computing Fundamentals I

## Overview

### Course Description

This course provides the essential foundation for the discipline of computing and a program of study in computer science, including the role of the professional. Topics include algorithm design, data abstraction, searching and sorting algorithms, and procedural programming techniques. Upon completion, students should be able to solve problems, develop algorithms, specify data types, perform sorts and searches, and use an operating system.

### Course ID

S25441

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

### Simple Requisites

| Local Prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take CIS-115

Take CIS-115(S25440);

### State prerequisite

#### Type

Prerequisite

Take One Set: Set 1: DMA-010, DMA-020, DMA-030, DMA-040, and DMA-050 Set 2: DMA-010, DMA-020 DMA-030 and DMA-045 Set 3: DMA-025, DMA-040 and DMA-050 Set 4: DMA-025 and DMA-045 Set 5: MAT-121 Set 6: MAT-171 Set 7: MAT-003 Set 8: BSP-4003

Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040(S24983) DMA-050(S24984); # Take MAT-121(S25429); # Take MAT-171(S25432); # Take DMA-025 DMA-040(S24983) DMA-050(S24984); # Take DMA-025 DMA-045; # Take DMA-010 DMA-020 DMA-030 DMA-045; # Take MAT-003; # Take BSP-4003(S25168);



# CSC121 - Python Programming

## Overview

### Course 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. This course is about using Python to make cybersecurity professionals more efficient and effective.

**Course ID**  
S24483

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# CSC128 - Chatbot Programming I

## Overview

### Course Description

This course covers chatbot development using industry standard programming tools. Topics include conversational interfaces, agents, natural language processing, and artificial intelligence. Upon completion, students should be able to demonstrate entry-level chatbot development skills.

**Course ID**  
S25562

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# CSC130 - Computing Fundamentals II

## Overview

### Course Description

This course provides in-depth coverage of the discipline of computing and the role of the professional. Topics include software design methodologies, analysis of algorithm and data structures, searching and sorting algorithms, and file organization methods. Upon completion, students should be able to use software design methodologies and choice of data structures and understand social/ethical responsibilities of the computing professional.

### Course ID

S14281

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take CSC-120

Take CSC-120(S11470);

# CSC134 - C++ Programming

## Overview

### Course 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.

### Course ID

S21066

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# CSC151 - JAVA Programming

## Overview

### Course 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.

### Course ID

S21076

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# CSC161 - Deep Learning

## Overview

### Course Description

This course covers deep learning foundations and deep learning platforms. Topics include neural networks, vectorization, machine learning, artificial intelligence, and computations underlying deep learning. Upon completion, students should be able to demonstrate an understanding of how neural networks are developed and are implemented in machine learning.

### Course ID

S25565

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# CSC174 - Server-Side Javascript

## Overview

### Course Description

This course introduces the use of JavaScript in the server environment to build server-side applications. Topics include asynchronous programming, connecting to other machines, testing, and connecting to different databases. Upon completion, students should be able to create server-side applications using JavaScript applications.

### Course ID

S24488

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 2         | 2     |

### Billing Hours

Billing Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Simple Requisites

| Local Requistes       |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take CTI-110          |
| Take CTI-110(S26503); |

# CSC214 - Artificial Intelligence II

## Overview

### Course Description

This course covers techniques for planning, learning, and decision making under uncertainty and in multi-agent environments. Topics include the design of intelligent agents to solve real-world problems including, search, machine learning, and logic. Upon completion, students should be able to demonstrate advanced artificial intelligence design concepts.

### Course ID

S25566

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 2         | 2     |

### Billing Hours

Billing Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 3        | 3    |

### Simple Requisites

| State previous courses |
|------------------------|
| Type                   |
| Prerequisite           |
| Take CSC-114           |
| Take CSC-114;          |

# CSC215 - Machine Learning II

## Overview

### Course Description

This course covers machine learning and algorithm essentials to help improve learning from patterns without human intervention. Topics include the exploration of recent applications of machine learning, design and development of algorithms for machines. Upon completion, students should be able to demonstrate advanced machine-learning techniques.

**Course ID**  
S25567

**Credit Hours**

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

**Billing Hours**

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

| State previous courses |  |
|------------------------|--|
| Type                   |  |
| Prerequisite           |  |
| Take CSC-115           |  |
| Take CSC-115;          |  |

# CSC217 - Artificial Intelligence Tools II

## Overview

### Course Description

This course covers advanced artificial intelligence tools, concepts, and technologies. Topics include the advanced utilization of artificial intelligence tools across multiple artificial intelligence subdomains. Upon completion, students should be able to utilize advanced AI solutions that improve safety, efficiency, error reduction, problem-solving, cost-savings, and the creation of new business opportunities.

**Course ID**  
S26063

**Credit Hours**

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

**Billing Hours**

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

| State prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |
| Take CSC-117       |  |

Take CSC-117;

# CSC221 - Advanced Python Programming

## Overview

### Course 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.

### Course ID

S25816

### Credit Hours

Credit Hours  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| State prerequisite |  |
|--------------------|--|
| Type               |  |
| Prerequisite       |  |
| Take CSC-121       |  |

Take CSC-121;

## CSC227 - Cloud Application Development

### Overview

#### Course Description

This course introduces how to build, deploy, host, and manage applications using cloud technologies. Topics include building cloud applications using cloud toolsets, defining and managing service models, storage fundamentals, secure backup system and database programming. Upon completion, students should be able to develop and host cloud applications, as well as design and develop services that access local and remote data from various data sources.

#### Course ID

S24492

#### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

#### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

## CSC228 - Chatbot Programming II

### Overview

#### Course Description

This course covers chatbot programming using one or more industry standard programming languages. Topics include conversational interfaces, agents, natural language processing, and artificial intelligence. Upon completion, students should be able to demonstrate advanced chatbot development skills.

#### Course ID

S25569

#### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

#### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

State concurrent or previous courses

#### Type

Prerequisite

Take CSC-128;  
Take CSC-128;

Take CSC-134(S21066);

# CSC234 - Advanced C++ Programming

## Overview

### Course 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.

### Course ID

S21079

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

State prerequisite  
Type  
Prerequisite

Take CSC-134



# CSC239 - Advanced Visual BASIC Programming

## Overview

### Course 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.

### Course ID

S21083

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| State prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take CSC-139

Take CSC-139(S21071);

# CSC249 - Data Structure & Algorithms

## Overview

### Course Description

This course introduces the data structures and algorithms frequently used in programming applications. Topics include lists, stacks, queues, dequeues, heaps, sorting, searching, mathematical operations, recursion, encryption, random numbers, algorithm testing, and standards. Upon completion, students should be able to design data structures and implement algorithms to solve various problems.

### Course ID

S24357

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# CSC251 - Advanced JAVA Programming

## Overview

### Course 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.

### Course ID

S21089

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take CSC-151

Take CSC-151;

# CSC256 - Software Quality Assurance

## Overview

### Course Description

This course covers the principles, concepts and processes of software testing. Topics include testing technologies, static techniques, test design techniques, and test management. Upon completion, students should be able to design and implement software testing plans and procedures throughout the software life cycle.

### Course ID

S24493

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 2               | Load | 2     |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 2              | Load | 2   |

## Simple Requisites

| Local Prerequisite               |
|----------------------------------|
| Type<br>Prerequisite             |
| Take CIS-115 or CSC-121          |
| Take CIS-115(S25440) or CSC-121; |

# CST111 - Construction I

## Overview

### Course 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.

### Course ID

S10559

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 3              | Load | 3   |

# CST112 - Construction II

## Overview

### Course 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.

### Course ID

S10519

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take CST-111         |
| Take CST-111;        |

# CST150 - Building Science

## Overview

### Course Description

This course introduces concepts and techniques for the design and interaction of the mechanical systems of high performance buildings. Topics include building envelope, heating, ventilation and air conditioning (HVAC), indoor air quality, lighting, plumbing and electrical. Upon completion, students should be able to understand building systems interaction and performance.

### Course ID

S23517

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# CST238 - Weatherization

## Overview

### Course Description

This course covers the use of current energy efficiency methods, materials, and techniques as applied to the weatherization of commercial and residential structures. Topics include the assessment of environmental impacts on energy consumption and building modifications that yield decreases in energy usage and increases in energy efficiency. Upon completion, students should be able to demonstrate competencies in building envelop analysis, energy-efficiency plan design, and implementation of weatherization plan.

### Course ID

S23592

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# CST241 - Planning/Estimating I

## Overview

### Course Description

This course covers the procedures involved in planning and estimating a construction/building project. Topics include performing quantity take-offs of materials necessary 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.

### Course ID

S23984

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take One: BPR-130, MAT-121, or MAT-171  
Take BPR-130(S23275) MAT-121(S23927) or MAT-171(S23934);

# CTC110 - Chemical Safety and Technology

## Overview

### Course Description

This course covers chemical safety and terminology with a focus on applications to chemical technology. Topics include chemical hazards, safe handling, storage, hazard recognition and control, waste management, OSHA regulations, and terminology used in a laboratory setting. Upon completion, students should be able to identify potential chemical safety hazards and the appropriate procedures to remediate such hazards.

### Course ID

S24926

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
Min:  
2

# CTC114 - Wet Laboratory Techniques

## Overview

### Course Description

This course introduces basic wet laboratory methods with emphasis on applications in chemical technology. Topics include measurements, physical property identification, separation techniques, gravimetric analysis, titrations, qualitative and quantitative methods, and basic laboratory tools, techniques, and safety. Upon completion, students should be able to demonstrate an understanding of basic chemical calculations and routine laboratory procedures.

### Course ID

S24927

### Credit Hours

Credit  
Hours  
Min:  
5

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
Min:  
5

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 6              | 6           |

# CTC115 - Quality Control Laboratory

## Overview

### Course Description

This course introduces quality control procedures with emphasis on applications in chemical technology. Topics include ISO 9000, calibration curves, reagent blanks, internal standards, detection limits, and terminology used in a quality controlled laboratory. Upon completion, students should be able to demonstrate an understanding of quality control and assurance in routine laboratory procedures.

### Course ID

S24928

### Credit Hours

Credit Hours  
5

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
5

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 6              | 6        |

# CTC145 - Advanced Laboratory Methods

## Overview

### Course Description

This course introduces advanced techniques in a laboratory environment. Topics include synthesis, distillation, extraction, recrystallization, reflux techniques and the use of instrumentation to determine purity. Upon completion, students should be able to identify common glassware and perform advanced synthesis techniques presented.

### Course ID

S24929

### Credit Hours

Credit Hours  
6

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

Billing Hours  
6

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 10             | 10       |

## Simple Requisites

### State prerequisite

#### Type

Prerequisite

Take One: CTC-114 or CTC-115

Take CTC-114 or CTC-115;

# CTC150 - Standards and Solutions

## Overview

### Course Description

This course introduces proper procedures for solution preparation in a chemical laboratory environment and the analytical methods used in substance identification. Topics include molarity, normality, dilution, parts per million (ppm), parts per billion (ppb), weight/volume percent, the use of calibration curves and standards, laboratory techniques and analytical equipment used to analyze solutions. Upon completion, students should be able to prepare common laboratory solutions used in an analytical laboratory

### Course ID

S24930

### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take One: CTC-114 or CTC-115

Take CTC-114 or CTC-115;



# CTC210 - Forensic Laboratory

## Overview

### Course Description

This course introduces forensic chemistry and related laboratory techniques. Topics include the application of laboratory techniques and analytical equipment to compounds associated with blood alcohol content, illicit drugs, questioned document analysis, arson investigation, gunshot residues, and DNA. Upon completion, students should be able to perform common laboratory methods used in a forensic chemistry laboratory.

### Course ID

S24931

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 3        | 3    |

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take CTC-145       |

# CTC235 - Food Chemistry

## Overview

### Course Description

This course introduces food chemistry and corresponding laboratory techniques. Topics include carbohydrates, lipids, amino acids, proteins, preservatives, antibiotics, laboratory techniques and analytical equipment used to analyze these classes of compounds. Upon completion, students should be able to recognize biologically active compounds, describe their structure, and perform common laboratory methods used in the food industry.

### Course ID

S24932

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 3        | 3    |

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take CTC-145       |

# CTC240 - Instrumentation I: Spectroscopy

## Overview

### Course Description

This course covers appropriate use of equipment and instruments in pharmaceutical and industrial settings as well as qualitative chemical analysis of selected inorganic ions. Emphasis is placed on sample preparation, statistical parameters, titrations, potentiometric methods and various forms of spectroscopy, including UV, AA, AE, IR, NMR, and mass spectroscopy. Upon completion, students should be able to carry out all analytical schemes presented.

### Course ID

S24923

### Credit Hours

Credit  
Hours  
6

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
6

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 8              | 8           |

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take One: CTC-114 or CTC-115

Take CTC-114 or CTC-115;

Take CTC-114 or CTC-115;

# CTC250 - Instrumentation II: Chromatography

## Overview

### Course Description

This course covers the use of various instruments and analytical methods in pharmaceutical, academic, or industrial settings. Emphasis is placed on various forms of chromatography, including GC, HPLC, IC, TLC, and size exclusion, as well as chemiluminescence and radioactive labels. Upon completion, students should be able to carry out all analytical schemes presented and be able to utilize all applicable instruments.

### Course ID

S24924

### Credit Hours

Credit  
Hours  
6

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
6

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 8              | 8        |

### Simple Requisites

#### State prerequisite

#### Type

Prerequisite

Take One: CTC-114 or CTC-115

# CTC260 - Chemical Technology Capstone

## Overview

### Course Description

This course is designed to assemble major aspects of the chemical technology field. Emphasis is placed on students completing a small-scale research project in their specialty area. Upon completion, students should be able to develop or modify a laboratory experiment in a current publication or scientific journal, perform tests, and incorporate the data into a formal report and oral presentation.

### Course ID

S24933

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 1               | 1             |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 3              | 3           |

### Simple Requisites

| State prerequisite           |              |
|------------------------------|--------------|
| Type                         | Prerequisite |
| Take One: CTC-240 or CTC-250 |              |

Take CTC-240(S24923) or CTC-250(S24924);

# CTI110 - Web, Programming, and Database Foundation

## Overview

### Course Description

This course covers the introduction of the tools and resources available to students in programming, mark-up language and services on the Internet. Topics include standard mark-up language Internet services, creating web pages, using search engines, file transfer programs; and database design and creation with DBMS products. Upon completion students should be able to demonstrate knowledge of programming tools, deploy a web-site with mark-up tools, and create a simple database table.

### Course ID

S22510

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 2              | 2           |

# CTI120 - Network and Security Foundation

## Overview

### Course 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.

### Course ID

S22511

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# CTI175 - Introduction to Wireless Technology

## Overview

### Course Description

This course introduces the student to the technologies and standards of wireless telecommunications. Topics include the design, implementation, configuration, security, standards and protocols of wireless local area networks (WLAN). Upon completion, students should be able to design, implement, and administer wireless local area networks.

### Course ID

S24495

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# CTI240 - Virtualization Administration I

## Overview

### Course Description

This course covers datacenter virtualization concepts. Topics include data storage, virtual network configuration, virtual machine and virtual application deployment. Upon completion, students should be able to perform tasks related to virtual machine and hypervisor installation and configuration.

### Course ID

S23207

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

| Local Prerequisite                       |
|------------------------------------------|
| Type                                     |
| Prerequisite                             |
| Take CET-130 or CTS-220 or NOS-110       |
| Take CET-130 CTS-220 or NOS-110(S20980); |

# CTI241 - Virtualization Administration II

## Overview

### Course Description

This course covers administration of datacenter virtualization infrastructure. Topics include access control, fault tolerance, scalability, resource management, virtual machine migration and troubleshooting. Upon completion, students should be able to perform tasks related to virtualization security, data protection and resource monitoring.

### Course ID

S23208

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

| Prerequisite  |
|---------------|
| Type          |
| Prerequisite  |
| Take CTI-240  |
| Take CTI-240; |

# CTS115 - Information Systems Business Concepts

## Overview

### Course 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.

**Course ID**  
S20996

**Credit Hours**

**Credit Hour**  
**s**  
**Min:**  
3

**Billing Hours**

**Billing Hour**  
**s**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

# CTS120 - Hardware/Software Support

## Overview

### Course 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.

**Course ID**  
S23679

**Credit Hours**

**Credit Hour**  
**s**  
**Min:**  
3

**Billing Hours**

**Billing Hour**  
**s**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

# CTS130 - Spreadsheet

## Overview

### Course 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.

**Course ID**  
S24366

**Credit Hours**

**Credit Hour**  
**s**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

**Billing Hours**

**Billing Hour**  
**s**  
**Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

| Local Prerequisite                                       |  |
|----------------------------------------------------------|--|
| <b>Type</b><br>Prerequisite                              |  |
| Take CIS-110, CIS-111, or OST-137                        |  |
| Take CIS-110(S21058) CIS-111(S21059) or OST-137(S24689); |  |

# CTS220 - Advanced Hardware/Software Support

## Overview

### Course Description

This course provides advanced knowledge and competencies in hardware and operating system technologies for computer technicians to support personal computers. Emphasis is placed on: configuring and upgrading; diagnosis and troubleshooting; as well as preventive maintenance of hardware and system software. Upon completion, students should be able to install, configure, diagnose, perform preventive maintenance, and maintain basic networking on personal computers.

**Course ID**  
S21005

**Credit Hours**

**Credit Hour**  
**s**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

**Billing Hours**

**Billing Hour**  
**s**  
**Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

| State prerequisite          |  |
|-----------------------------|--|
| <b>Type</b><br>Prerequisite |  |



Take CTS-120

Take CTS-120(S23679);

# CTS240 - Project Management

## Overview

### Course 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.

### Course ID

S24369

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

| Local Prerequisite                       |              |
|------------------------------------------|--------------|
| Type                                     | Prerequisite |
| Take CIS-110 or CIS-111                  |              |
| Take CIS-110(S21058) or CIS-111(S21059); |              |

# CTS288 - Professional Practices in IT

## Overview

### Course Description

This course provides students with the business skills needed for success in the information technology field. Topics include portfolio development, resume design, interviewing techniques and professional practices. Upon completion, students should be able to prepare themselves and their work for a career in the information technology field.

### Course ID

S20944

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# CUL110 - Sanitation and Safety Overview

### Course Description

This course introduces the basic principles of sanitation and safety relative to the hospitality industry. Topics include personal hygiene, sanitation and safety regulations, use and care of equipment, the principles of food-borne illness, and other related topics. Upon completion, students should be able to demonstrate an understanding of the content necessary for successful completion of a nationally recognized food/safety/sanitation exam.

### Course ID

S22835

### Credit Hours

Credit Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing Hours  
2

# CUL110A - Sanitation and Safety Lab

## Overview

### Course Description

This course provides a laboratory experience for enhancing student skills in the basic principles of sanitation and safety. Emphasis is placed on personal hygiene, sanitation and safety regulations, use and care of equipment, the principles of food-borne illness, and other related topics. Upon completion, students should be able to demonstrate practical applications of sanitation and safety procedures in the hospitality industry.

### Course ID

S22836

### Credit Hours

Credit  
Hours  
1  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Billing Hours

Billing  
Hours  
1  
Min:

## Simple Requisites

| State concurrent or previous courses |  |
|--------------------------------------|--|
| Type                                 |  |
| Corequisite                          |  |
| Take CUL-110                         |  |

Take CUL-110(S11030);

# CUL112 - Nutrition for Foodservice

## Overview

### Course Description

This course covers the principles of nutrition and its relationship to the foodservice industry. Topics include personal nutrition fundamentals, weight management, exercise, nutritional adaptation/analysis of recipes/ menus, healthy cooking techniques and marketing nutrition in a foodservice operation. Upon completion, students should be able to apply basic nutritional concepts to food preparation and selection.

### Course ID

S22837

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:

# CUL120 - Purchasing

## Overview

### Course Description

This course covers purchasing for foodservice operations. Emphasis is placed on yield tests, procurement, negotiating, inventory control, product specification, purchasing ethics, vendor relationships, food product specifications and software applications. Upon completion, students should be able to apply effective purchasing techniques based on the end-use of the product.

### Course ID

S22838

### Credit Hours

Credit  
Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
2

### Simple Requisites

| Recommended concurrent or previous courses |             |
|--------------------------------------------|-------------|
| Type                                       | Corequisite |
| Take CUL-120A                              |             |
| Take CUL-120A(S22839);                     |             |

# CUL120A - Purchasing Lab

## Overview

### Course Description

This course provides a laboratory experience for enhancing student skills in purchasing for foodservice operations. Emphasis is placed on practical experiences in yield tests, procurement, negotiating, inventory control, product specification, purchasing ethics, vendor relationships, food product specifications and software applications. Upon completion, students should be able to demonstrate practical applications of purchasing within the hospitality industry.

### Course ID

S22839

### Credit Hours

Credit  
Hours  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

| State concurrent or previous courses |             |
|--------------------------------------|-------------|
| Type                                 | Corequisite |
| Take CUL-120                         |             |
| Take CUL-120(S12584);                |             |

# CUL130 - Menu Design

## Overview

### Course Description

This course introduces menu design and its relationship to foodservice operations. Topics include layout, marketing, concept development, dietary concerns, product utilization, target consumers and trends. Upon completion, students should be able to design, create and produce menus for a variety of foodservice settings.

### Course ID

S22841

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
2

# CUL135 - Food and Beverage Service

## Overview

### Course Description

This course is designed to cover the practical skills and knowledge necessary for effective food and beverage service in a variety of settings. Topics include greeting/ service of guests, dining room set-up, profitability, menu sales and merchandising, service styles and reservations. Upon completion, students should be able to demonstrate competence in human relations and the skills required in the service of foods and beverages.

### Course ID

S22842

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
2

## Simple Requisites

Recommended concurrent or previous courses

### Type

Corequisite

TAKE CUL-135A

Take CUL-135A(S22843);

# CUL135A - Food and Beverage Service Lab

## Overview

### Course Description

This course provides a laboratory experience for enhancing student skills in effective food and beverage service. Emphasis is placed on practical experiences including greeting/service of guests, dining room set-up, profitability, menu sales and merchandising, service styles and reservations. Upon completion, students should be able to demonstrate practical applications of human relations and the skills required in the service of foods and beverages.

### Course ID

S22843

### Credit Hours

Credit Hours  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Billing Hours

Billing Hours  
1

### Simple Requisites

| State concurrent or previous courses |              |
|--------------------------------------|--------------|
| Type                                 |              |
| Corequisite                          |              |
|                                      | Take CUL-135 |

Take CUL-135(S10202);

# CUL140 - Culinary Skills I

## Overview

### Course Description

This course introduces the fundamental concepts, skills and techniques in basic cookery, and moist, dry and combination heat. Emphasis is placed on recipe conversion, measurements, terminology, classical knife cuts, safe food/equipment handling, flavorings/seasonings, stocks/sauces/soups, and related topics. Upon completion, students should be able to exhibit the basic cooking skills used in the foodservice industry.

### Course ID

S22844

### Credit Hours

Credit Hours  
5

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
5

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

State concurrent or previous courses

Type  
Corequisite

Take CUL-110

Take CUL-110(S22835);

# CUL142 - Fundamentals of Food

## Overview

### Course Description

This course introduces the student to the basic principles of cooking, baking and kitchen operations. Topics include preparation methods for protein, starch, vegetable/fruit identification/selection, storage; breakfast cookery, breads, sweet dough/pastries, basic fabrication, knife skills, and mise en place. Upon completion, students should be able to execute efficiently a broad range of basic cooking/baking skills as they apply to different stations in foodservice operations.

### Course ID

S22845

### Credit Hours

Credit  
Hours  
5  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
5  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

State concurrent or previous courses

#### Type

Corequisite

Take CUL-110



# CUL150 - Food Science

## Overview

### Course Description

This course covers the chemical and physical changes in foods that occur with cooking, handling, and processing. Emphasis is placed on practical application of heat transfer and its effect on color/flavor/texture, emulsification, protein coagulation, leavening agents, viscosity, and gel formation. Upon completion, students should be able to demonstrate an understanding of these principles as they apply to food preparation in an experimental setting.

### Course ID

S22846

### Credit Hours

Credit  
Hours  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Simple Requisites

| Recommended concurrent or previous courses |
|--------------------------------------------|
| Type                                       |
| Corequisite                                |
| Take CUL-110                               |

# CUL160 - Baking I

## Overview

### Course Description

This course covers basic ingredients, techniques, weights and measures, baking terminology and formula calculations. Topics include yeast/chemically leavened products, laminated doughs, pastry dough batter, pies/tarts, meringue, custard, cakes and cookies, icings, glazes and basic sauces. Upon completion, students should be able to demonstrate proper scaling and measurement techniques, and prepare and evaluate a variety of bakery products.

### Course ID

S22847

### Credit Hours

Credit  
Hours  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

Billing  
Hours  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 4        | 4    |

### Simple Requisites

| State concurrent or previous courses |
|--------------------------------------|
| Type                                 |
| Corequisite                          |
| Take CUL-110                         |

# CUL170 - Garde Manger I

## Overview

### Course Description

This course introduces basic cold food preparation techniques and pantry production. Topics include salads, sandwiches, appetizers, dressings, basic garnishes, cheeses, cold sauces, and related food items. Upon completion, students should be able to present a cold food display and exhibit an understanding of the cold kitchen and its related terminology.

**\*\*This is a Spring Only Class.\*\***

### Course ID

S22849

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

### Simple Requisites

| Prerequisite          |  |
|-----------------------|--|
| Type                  |  |
| Prerequisite          |  |
| Take CUL-140          |  |
| Take CUL-140(S22844); |  |

### State concurrent or previous courses

#### Type

#### Corequisite

Take CUL-110

Take CUL-110(S22835);

# CUL214 - Wine Appreciation

## Overview

### Course Description

This course provides an introduction to information about wine from all the major wine producing regions. Emphasis is placed on the history of wine, production, characteristics, wine list development, laws, purchasing and storing requirements. Upon completion, students should be able to evaluate varietal wines and basic food pairings.

### Course ID

S22852

### Credit Hours

Credi  
t  
Hour  
s  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

# CUL230 - Global Cuisines

## Overview

### Course Description

This course provides practical experience in the planning, preparation, and presentation of representative foods from a variety of world cuisines. Emphasis is placed on indigenous ingredients and customs, nutritional concerns, and cooking techniques. Upon completion, students should be able to research and execute a variety of international and domestic menus.

### Course ID

S22808

### Credit Hours

Credit  
Hour  
s  
Min:  
5

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
5

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 8       |          | 8    |

### Simple Requisites

| State prerequisite                    |
|---------------------------------------|
| Type                                  |
| Prerequisite                          |
| Take All: CUL-110 and CUL-140         |
| Take CUL-110(S11030) CUL-140(S12163); |

# CUL240 - Culinary Skills II

## Overview

### Course Description

This course is designed to further students' knowledge of the fundamental concepts, skills, and techniques involved in basic cookery. Emphasis is placed on meat identification/fabrication, butchery and cooking techniques/methods; appropriate vegetable/starch accompaniments; compound sauces; plate presentation; breakfast cookery; and quantity food preparation. Upon completion, students should be able to plan, execute, and successfully serve entrees with complementary side items.

### Course ID

S24960

### Credit Hours

Credit  
Hour  
s  
Min:  
5

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
5

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 8       |          | 8    |

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |

Take one set: Set 1: CUL-110 and CUL-140 Set 2: CUL-110, CUL-142, and CUL-170

Take 1 group; # Take CUL-110(S22835)  
CUL-140(S22844); # Take CUL-110(S22835)  
CUL-142(S22845) CUL-170(S22849);

# CUL245 - Contemporary Cuisines

## Overview

### Course Description

This course introduces students to current culinary trends which include a variety of preparation methods. Topics include current and developing trends such as adaptation of native/regional ingredients and preparation methods into contemporary cuisines. Upon completion, students should be able to demonstrate knowledge of a variety of contemporary cuisines.

### Course ID

S22810

### Credit Hours

Credit Hours  
5  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing Hours  
5  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 8              | 8        |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take All: CUL-110 and CUL-140

Take CUL-110(S11030) CUL-140(S12163);

# CUL250 - Classical Cuisine

## Overview

### Course Description

This course is designed to reinforce the classical culinary kitchen. Topics include the working Grand Brigade of the kitchen, signature dishes and classical banquets. Upon completion, students should be able to demonstrate competence in food preparation in a classical/upscale restaurant or banquet setting.

### Course ID

S22855

### Credit Hours

Credit  
Hours  
5  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
5  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 8              | 8        |

### Simple Requisites

#### State prerequisite

Type  
Prerequisite

Take All: CUL-110, CUL-140, and CUL-240  
Take CUL-110(S22835) CUL-140(S22844)  
CUL-240(S22853);

# CUL260 - Baking II

## Overview

### Course Description

This course is designed to further students' knowledge in ingredients, weights and measures, baking terminology and formula calculation. Topics include classical desserts, frozen desserts, cake and torte production, decorating and icings/glazes, dessert plating and presentation. Upon completion, students should be able to demonstrate pastry preparation, plating, and dessert buffet production skills.

### Course ID

S22857

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 4        | 4    |

### Simple Requisites

| State prerequisite            |
|-------------------------------|
| Type                          |
| Prerequisite                  |
| Take All: CUL-110 and CUL-160 |

# CUL270 - Garde Manger II

## Overview

### Course Description

This course is designed to further students' knowledge in basic cold food preparation techniques and pantry production. Topics include pates, terrines, galantines, decorative garnishing skills, carving, charcuterie, smoking, canapes, hors d'oeuvres, and related food items. Upon completion, students should be able to design, set up, and evaluate a catering/ event display to include a cold buffet with appropriate showpieces.

### Course ID

S22859

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 4        | 4    |

### Simple Requisites

| State prerequisite                      |
|-----------------------------------------|
| Type                                    |
| Prerequisite                            |
| Take All: CUL-110, CUL-140, and CUL-170 |
| Take CUL-110(S22835) CUL-140(S22844)    |

CUL-170(S22849);

# CUL275 - Catering Cuisine

## Overview

### Course Description

This course covers the sequential steps to successful catering that include sales, client needs, menu planning, purchasing, costing, event pricing, staffing and sanitation concerns. Emphasis is placed on new culinary competencies and skills specific to catering preparation, presentation, and customer service. Upon completion, students should be able to demonstrate proficiency in the successful design and execution of various types of catering events.

### Course ID

S22861

### Credit Hours

Credit  
Hours  
5  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
5  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 8              | 8        |

### Simple Requisites

#### State prerequisite

Type  
Prerequisite

- Take All: CUL-110, CUL-140, and CUL-240
- Take CUL-110(S22835) CUL-140(S22844)

CUL-240(S22853);

# CUL280 - Pastry and Confections

## Overview

### Course Description

This course includes confections and candy, chocolate techniques, transfer sheets, pulled and blown sugar, pastillage, marzipan and custom silicon molding. Emphasis is placed on showpieces, pre-set molding, stencil cutouts, pattern tracing and/or free-hand shaping. Upon completion, students should be able to design and produce centerpieces and showpieces.

### Course ID

S22862

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 4              | 4        |

### Simple Requisites

#### State prerequisite

Type  
Prerequisite

Take All: CUL-110, CUL-140, and CUL-160

Take CUL-110(S22835) CUL-140(S22844)



CUL-160(S22847);

# CUL283 - Farm-To-Table

## Overview

### Course Description

This course introduces students to the cooperation between sustainable farmers and foodservice operations. Emphasis is placed on environmental relationships, including how foods are grown, processed, and distributed, as well as related implications on quality and sustainability. Upon completion, students should be able to demonstrate an understanding of environmental stewardship and its impact on cuisine.

### Course ID

S22813

### Credit Hours

Credit  
Hours  
5  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
5  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take All: CUL-110 and CUL-140

# CUL285 - Competition Fundamentals

## Overview

### Course Description

This course provides practical experience in planning, techniques, and procedures required for culinary competitions and exhibitions. Emphasis is placed on competition strategies including menu planning, teamwork, plate design, flavor profiles, recipe development, nutrition, advanced knife/culinary skills, professionalism, and portfolio development. Upon completion, students should be able to apply competition/exhibition skills and standards in the competition arena and professional kitchen.

### Course ID

S20901

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 4       |          | 4    |

### Simple Requisites

| State prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take One: CUL-110, CUL-110A, CUL-140, or CUL-160

Take CUL-110(S11030) CUL-110A(S12574) CUL-140(S12163) or CUL-160(S13015);

# CVS160 - Cardiovascular Sonography Clinical Education I

## Overview

### Course Description

This course provides active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

### Course ID

S23618

### Credit Hours

Credit  
Hours  
5

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 4       |          | 4    |

### Billing Hours

Billing  
Hours  
5

| Name    | Clinical | Code  |
|---------|----------|-------|
| Hours   |          | CLINC |
| Contact | Hours    | Load  |
| 9       |          | 9     |

# CVS161 - CVS Clinical Education II

## Overview

### Course Description

This course provides continued participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**Course ID**  
S10218

### Credit Hours

**Credit Hours**  
8

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 24             | 24    |

### Billing Hours

**Billing Hours**  
8

### Simple Requisites

|                             |
|-----------------------------|
| <b>State prerequisite</b>   |
| <b>Type</b><br>Prerequisite |
| Take CVS-160                |
| Take CVS-160(S10120);       |

# CVS162 - CVS Clinical Education III

## Overview

### Course Description

This course provides continued participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**Course ID**  
S10146

### Credit Hours

**Credit Hours**  
5

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 15             | 15    |

### Billing Hours

**Billing Hours**  
5

### Simple Requisites

|                             |
|-----------------------------|
| <b>State prerequisite</b>   |
| <b>Type</b><br>Prerequisite |
| Take CVS-161                |
| Take CVS-161;               |

# CVS163 - Echo I

## Overview

### Course Description

This course covers cardiac anatomy and introduces cardiac scanning techniques. Topics include normal cardiac anatomy, Doppler physics, and 2-D and M-mode imaging. Upon completion, students should be able to perform 2-D and M-mode studies.

### Course ID

S10197

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# CVS164 - Echo II

## Overview

### Course Description

This course is a continuation of CVS 163 with continued study of 2-D and M-mode imaging. Emphasis is placed on continuous wave, pulsed wave, color, and power Doppler imaging of normal and abnormal cardiac conditions. Upon completion, students should be able to perform and recognize normal and abnormal cardiac studies.

### Course ID

S10106

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

#### State prerequisite

Type  
Prerequisite

Take CVS-163  
Take CVS-163;

# CVS260 - CVS Clinical Education IV

## Overview

### Course Description

This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

### Course ID

S11772

### Credit Hours

Credit  
Hours  
8

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 24             | 24    |

### Billing Hours

Billing  
Hours  
8

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take CVS-162       |
| Take CVS-162;      |

# CVS261 - CVS Clinical Education V

## Overview

### Course Description

This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

### Course ID

S11708

### Credit Hours

Credit  
Hours  
8

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 24             | 24    |

### Billing Hours

Billing  
Hours  
8

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take CVS-260       |
| Take CVS-260;      |

# CVS277 - Cardiovascular Topics

## Overview

### Course Description

This course provides an overview of cardiovascular topics in preparation for certification examinations. Emphasis is placed on registry preparation. Upon completion, students should be able to sit for the registry examinations.

### Course ID

S22965

### Credit Hours

Credit Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
2

# DBA110 - Database Concepts Overview

## Course 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.

### Course ID

S21017

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

## Simple Requisites

### Prerequisite

Type  
Prerequisite

Take CIS-110 or CIS-111

Take CIS-110(S21058) or CIS-111(S21059);

# DBA120 - Database Programming I

## Overview

### Course Description

This course is designed to develop SQL programming proficiency. Emphasis is placed on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be able to write programs which create, update, and produce reports.

### Course ID

S21020

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name      |       |  |
|-----------|-------|--|
| Classroom | Code  |  |
| Hours     | CLASS |  |
| Contact   |       |  |
| Hours     | Load  |  |
| 2         | 2     |  |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

| Name     |      |  |
|----------|------|--|
| Lab/Shop | Code |  |
| Hours    | LAB  |  |
| Contact  |      |  |
| Hours    | Load |  |
| 2        | 2    |  |

# DBA210 - Database Administration

## Overview

### Course Description

This course covers database administration issues and distributed database concepts. Topics include database administrator (DBA) goals and functions, backup and recovery, standards and procedures, training, and database security and performance evaluations. Upon completion, students should be able to produce functional DBA documentation and administer a database.

### Course ID

S21021

### Credit Hours

Credi  
t  
Hour  
s  
Min:  
3

| Name      |       |  |
|-----------|-------|--|
| Classroom | Code  |  |
| Hours     | CLASS |  |
| Contact   |       |  |
| Hours     | Load  |  |
| 2         | 2     |  |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

| Name     |      |  |
|----------|------|--|
| Lab/Shop | Code |  |
| Hours    | LAB  |  |
| Contact  |      |  |
| Hours    | Load |  |
| 3        | 3    |  |

# DDF211 - Design Process I

## Overview

### Course 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.

### Course ID

S20641

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 6             | 6              |      |

### Simple Requisites

| Local Prerequisite                                                                             |
|------------------------------------------------------------------------------------------------|
| Type                                                                                           |
| Prerequisite                                                                                   |
| Take ELC-111 and Take DFT-154 or DFT-254<br># Take ELC-111; # Take DFT-154(S20664) or DFT-254; |

# DDF212 - Design Process II

## Overview

### Course Description

This course stresses the integration of various design practices. Emphasis is placed on the creation of an original design. Upon completion, students should be able to apply engineering graphics and design procedures to a design project.

### Course ID

S20817

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 6             | 6              |      |

### Simple Requisites

| State prerequisite                    |
|---------------------------------------|
| Type                                  |
| Prerequisite                          |
| Take DDF-211<br>Take DDF-211(S10112); |



# DEA111 - Introduction to DEAT

## Overview

### Course Description

This course is an overview of the digital effects and animation technology field from the most simple processes to the most complex. Topics covered include digitizing existing images, creating digital images, manipulation of images and various forms of computer animation. Upon completion, students should be able to demonstrate a vocabulary of the digital effects and animation field and a knowledge of ourstanding examples of work in the field.

**Course ID**  
S10024

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

# DEN100 - Basic Orofacial

## Anatomy

### Overview

### Course 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. This is a diploma-level course.

**Course ID**  
S14129

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
2

### Simple Requisites

**Local Recommended Concurrent Or Previous Courses**

**Type**  
Corequisite

Take DEN-101

Take DEN-101(S20496);

# DEN101 - Preclinical Procedures

## Overview

### Course 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.

### Course ID

S20496

### Credit Hours

Credit Hours  
7

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact         |            |
| Hours           | Load       |
| 4               | 4          |

### Billing Hours

Billing Hours  
7

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Simple Requisites

| Recommended concurrent or previous courses |             |
|--------------------------------------------|-------------|
| Type                                       | Corequisite |
|                                            |             |

Take DEN-111

Take DEN-111;

# DEN102 - Dental Materials

## Overview

### Course 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.

### Course ID

S24548

### Credit Hours

Credit Hours  
4

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 2             | 2              |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 4             | 4             |

### Simple Requisites

| Local Recommended Concurrent Or Previous Courses |
|--------------------------------------------------|
| Type                                             |
| Corequisite                                      |
| Take DEN-101                                     |

Take DEN-101(S20496);

# DEN103 - Dental Sciences

## Overview

### Course 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.

### Course ID

S14117

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
Min:  
2

### Simple Requisites

| Local Prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |
| Take DEN-100       |              |
| Take DEN-100;      |              |

Local Recommended Concurrent Or Previous Courses

Type  
Corequisite

Take DEN-106  
Take DEN-106(S20499);

# DEN104 - Dental Health Education

## Overview

### Course 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.

### Course ID

S20498

### Credit Hours

Credit Hours  
Min:  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 2               | 2             |

### Billing Hours

Billing Hours  
Min:  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 2              | 2           |

### Simple Requisites

Local Prerequisite

Type  
Prerequisite

Take DEN-101 DEN-111

Take DEN-101(S20496) DEN-111;

Local Recommended Concurrent Or Previous Courses

Type

Corequisite

Take DEN-106

Take DEN-106(S20499);

# DEN105 - Practice Management

## Overview

### Course 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.

### Course ID

S14095

### Credit Hours

Credit  
Hours  
2  
Min:  
2

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

Billing  
Hours  
2  
Min:  
2

### Simple Requisites

Local Prerequisite

Type

Prerequisite

Take DEN-100

Take DEN-100;

Local Recommended Concurrent Or Previous Courses

Type

Corequisite

Take DEN-106

Take DEN-106(S20499);

# DEN106 - Clinical Practice I

## Overview

### Course 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.

### Course ID

S24527

### Credit Hours

Credit Hours  
6

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing Hours  
6

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 12             | 12    |

### Simple Requisites

Local Prerequisite

Type

Prerequisite

Take DEN-111

Take DEN-111;

**Local Recommended Concurrent Or Previous Courses**

**Type**  
**Corequisite**

Take DEN-103 DEN-104 DEN-112

Take DEN-103 DEN-104(S20498)  
DEN-112(S20500);

**State prerequisite**

**Type**  
**Prerequisite**

Take DEN-101

Take DEN-101(S20496);

# DEN107 - Clinical Practice II

## Overview

### Course 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.

### Course ID

S14107

### Credit Hours

Credit  
Hours  
5  
Min:

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

### Billing Hours

Billing  
Hours  
5  
Min:

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  |            |
| 12             | Load 12    |

### Simple Requisites

**State prerequisite**

**Type**  
**Prerequisite**

Take DEN-106

Take DEN-106(S14145);



# DEN110 - Orofacial Anatomy

## Overview

### Course 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.

**Course ID**  
S13235

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

| Recommended concurrent or previous courses |             |
|--------------------------------------------|-------------|
| Type                                       | Corequisite |
| Take DEN-121                               |             |
| Take DEN-121;                              |             |

# DEN111 - Infection/Hazard Control

## Overview

### Course 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.

**Course ID**  
S13136

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
2

### Simple Requisites

| Recommended concurrent or previous courses |             |
|--------------------------------------------|-------------|
| Type                                       | Corequisite |

Take DEN-101 or DEN-121

Take DEN-101(S20496) or DEN-121;

# DEN112 - Dental Radiography

## Overview

### Course 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.

**Course ID**  
S20500

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
**Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

**Recommended concurrent or previous courses**

**Type**  
Corequisite

Take DEN-100 or DEN-110 and DEN-111;

Take 1 group; # Take DEN-100 DEN-111; # Take

DEN-110 DEN-111;

# DEN120 - Dental Hygiene Preclinic Lecture

## Overview

### Course 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.

### Course ID

S13771

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
Min:  
2

### Simple Requisites

State concurrent or previous courses

Type  
Corequisite

Take DEN-121

Take DEN-121;

# DEN121 - Dental Hygiene Preclinical Lab

## Overview

### Course 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.

**Course ID**  
S13759

### Credit Hours

**Credit Hours**  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

**Billing Hours**  
2

## Simple Requisites

| Recommended concurrent or previous courses |
|--------------------------------------------|
| Type<br>Corequisite                        |
| Take DEN-110 and DEN-111                   |
| Take DEN-110 DEN-111;                      |
| State concurrent or previous courses       |

Type  
Corequisite

|               |
|---------------|
| Take DEN-120  |
| Take DEN-120; |

# DEN123 - Nutrition/Dental Health

## Overview

### Course 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.

**Course ID**  
S24466

### Credit Hours

**Credit Hours**  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

**Billing Hours**  
2

# DEN124 - Periodontology

## Overview

### Course 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.

**Course ID**  
S13772

### Credit Hours

**Credit Hours**  
**Min:**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
**Min:**  
2

### Simple Requisites

|                           |
|---------------------------|
| <b>State prerequisite</b> |
| <b>Type Prerequisite</b>  |
| Take DEN-110              |
| Take DEN-110;             |

# DEN125 - Dental Office Emergencies

## Overview

### Course 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.

**Course ID**  
S12820

### Credit Hours

**Credit Hours**  
**Min:**  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

### Billing Hours

**Billing Hours**  
**Min:**  
1

# DEN130 - Dental Hygiene Theory I

## Overview

### Course 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.

### Course ID

S11503

### Credit Hours

Credit  
Hours  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hours  
2

### Simple Requisites

**State prerequisite**  
**Type**  
Prerequisite

Take DEN-120

Take DEN-120;

**State concurrent or previous courses**

**Type**  
**Corequisite**

Take DEN-131

Take DEN-131;

# DEN131 - Dental Hygiene Clinic I

## Overview

### Course 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.

### Course ID

S11463

### Credit Hours

Credit  
Hours  
3

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 9              | 9     |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

|                                                                                                               |
|---------------------------------------------------------------------------------------------------------------|
| <b>State prerequisite</b><br><br><b>Type</b><br>Prerequisite<br><br><div>Take DEN-121<br/>Take DEN-121;</div> |
| <b>State concurrent or previous courses</b>                                                                   |

**Type**  
Corequisite

Take DEN-130  
Take DEN-130;

# DEN140 - Dental Hygiene Theory II

## Overview

### Course 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.

**Course ID**  
S25911

### Credit Hours

**Credit Hour**  
**Min:**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

### Billing Hours

**Billing Hour**  
**Min:**  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

|                    |              |
|--------------------|--------------|
| State prerequisite |              |
| Type               | Prerequisite |
| Take DEN-130       |              |

Take DEN-130;

### State concurrent or previous courses

Type  
Corequisite

Take DEN-141  
Take DEN-141;



# DEN141 - Dental Hygiene Clinic II

## Overview

### Course 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.

### Course ID

S14275

### Credit Hours

Credit  
Hours  
2

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 6              | 6     |

### Billing Hours

Billing  
Hours  
2

### Simple Requisites

|                                                                                                       |
|-------------------------------------------------------------------------------------------------------|
| <b>State prerequisite</b><br><br><b>Type</b><br>Prerequisite<br><br>Take DEN-131<br><br>Take DEN-131; |
| <b>State concurrent or previous courses</b>                                                           |

### Type Corequisite

Take DEN-140  
  
Take DEN-140(S14315);

# DEN220 - Dental Hygiene Theory III

## Overview

### Course 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.

### Course ID

S24468

### Credit Hours

Credit  
Hours  
2  
Min:  
2

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hours  
2  
Min:  
2

### Simple Requisites

**State prerequisite**  
**Type**  
Prerequisite

**Take DEN-140**  
Take DEN-140(S14315);

### State concurrent or previous courses

**Type**  
**Corequisite**

**Take DEN-221**  
Take DEN-221;

# DEN221 - Dental Hygiene Clinic III

## Overview

### Course 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.

### Course ID

S11261

### Credit Hours

Credit Hours  
Min:  
4

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 12             | 12    |

### Billing Hours

Billing Hours  
Min:  
4

### Simple Requisites

**State prerequisite**  
**Type**  
**Prerequisite**

**Take DEN-141**  
Take DEN-141;

**State concurrent or previous courses**  
**Type**  
**Corequisite**

**Take DEN-220**  
Take DEN-220(S11191);

# DEN222 - General & Oral Pathology

## Overview

### Course 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.

### Course ID

S11225

### Credit Hours

Credit  
Hours  
2

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 2             | 2              |

### Billing Hours

Billing  
Hours  
2

### Simple Requisites

| Prerequisite         |
|----------------------|
| Type<br>Prerequisite |

Take DEN-110

Take DEN-110;

### State prerequisite

Type  
Prerequisite

Take One: BIO-163, BIO-165, or BIO-168

Take BIO-163 BIO-165 or BIO-168(S11555);

Take BIO-163 BIO-165 or BIO-168(S11555);

# DEN223 - Dental Pharmacology

## Overview

### Course 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.

### Course ID

S11244

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
2

### Simple Requisites

| State concurrent or previous courses   |
|----------------------------------------|
| Type                                   |
| Corequisite                            |
| Take One: BIO-163, BIO-165, or BIO-168 |

Take DEN-111;

# DEN224 - Materials and Procedures

## Overview

### Course 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.

### Course ID

S11204

### Credit Hours

Credit  
Hours  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 1               | 1     |

### Billing Hours

Billing  
Hours  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Simple Requisites

State prerequisite  
Type  
Prerequisite

Take DEN-111

# DEN230 - Dental Hygiene Theory IV

## Overview

### Course 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.

### Course ID

S24469

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 1               | 1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
1

### Simple Requisites

**State prerequisite**  
**Type**  
Prerequisite

Take DEN-220

Take DEN-220(S11191);

**State concurrent or previous courses**

**Type**  
**Corequisite**

Take DEN-231

Take DEN-231;

# DEN231 - Dental Hygiene Clinic IV

## Overview

### Course 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.

### Course ID

S12938

### Credit Hours

Credit  
Hours  
Min:  
4

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 12             | 12    |

### Billing Hours

Billing  
Hours  
Min:  
4

### Simple Requisites

**State prerequisite**  
**Type**  
**Prerequisite**

**Take DEN-221**  
Take DEN-221;

**State concurrent or previous courses**  
**Type**  
**Corequisite**

**Take DEN-230**  
Take DEN-230(S12882);



# DEN232 - Community Dental Health

## Overview

### Course 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.

### Course ID

S24470

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# DEN233 - Professional Development

## Overview

### Course 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.

### Course ID

S12943

### Credit Hours

Credit Hours  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
2

# DES110 - Architectural Graphics

## Overview

### Course Description

This course introduces basic drafting skills and techniques. Emphasis is placed on the use of drafting equipment, lettering, dimensioning, elevations, sections, construction details, and design standards as related to interior design. Upon completion, students should be able to complete construction documents skillfully utilizing principles of drafting.

### Course ID

S24219

### Credit Hours

Credit Hours  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing Hours  
2

### Simple Requisites

| Corequisite                           |
|---------------------------------------|
| Type                                  |
| Corequisite                           |
| Take DES-125 DES-135                  |
| Take DES-125(S24222) DES-135(S24225); |

# DES111 - Creative Problem Solving

## Overview

### Course Description

This course is designed to improve conceptual abilities as applied to problems involved with creating practical designs. Emphasis is placed on the awareness of creative thinking techniques that are involved with producing a workable design in an innovative fashion. Upon completion, students should be able to apply creative thinking techniques to find innovative solutions to design challenges.

### Course ID

S24220

### Credit Hours

Credit Hours  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing Hours  
2

### Simple Requisites

| Local Corequisite     |
|-----------------------|
| Type                  |
| Corequisite           |
| #Take DES-240         |
| Take DES-240(S24233); |

# DES112 - Building and Construction Systems

## Overview

### Course Description

This course provides an overview of the residential construction process for the interior designer. Emphasis is placed on providing the fundamental knowledge needed by the designer in residential construction basics and methods, including electrical and lighting, plumbing, sustainability, mechanical and ventilation, and the building envelope. Upon completion, students should be able to demonstrate effective communication required for effective collaboration with architects, engineers, and building contractors.

### Course ID

S23623

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

# DES120 - CAD for Interior Design

## Overview

### Course Description

This course introduces basic computer-aided design and drafting skills and techniques within interior design applications. Emphasis is placed on the most common computer commands used in architectural drafting and design to draw, edit, manipulate layers, and create templates. Upon completion, students should be able to use specific computer applications to complete drawings and plot/print.

### Course ID

S24221

### Credit Hours

Credit Hours  
2

### Billing Hours

Billing Hours  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take DES-110  
Take DES-110(S10337);

# DES125 - Visual Presentation I

## Overview

### Course Description

This course introduces visual presentation techniques for communicating ideas. Topics include drawing, perspective drawing, rendering and mixed media. Upon completion, students should be able to present a design concept through graphic media.

**Course ID**  
S24222

### Credit Hours

**Credit Hours**  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

**Billing Hours**  
2

### Simple Requisites

| Corequisite                           |
|---------------------------------------|
| Type                                  |
| Corequisite                           |
| Take DES-110 DES-135                  |
| Take DES-110(S10337) DES-135(S10718); |

# DES130 - Digital Applications and Interior Design

## Overview

### Course Description

This course introduces digital applications using current appropriate software and emerging technologies. Emphasis is placed on the operation of computer software in interior design applications. Upon completion, students should be able to use digital media to prepare a design solution.

**Course ID**  
S24224

### Credit Hours

**Credit Hours**  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

**Billing Hours**  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Simple Requisites

| Local Prerequisite                                    |
|-------------------------------------------------------|
| Type                                                  |
| Prerequisite                                          |
| Take DES-110 DES-125 DES-135                          |
| Take DES-110(S24219) DES-125(S24222) DES-135(S24225); |

Take DES-110(S10337) DES-125(S11944);

# DES135 - Principles and Elements of Design I

## Overview

### Course 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.

### Course ID

S24225

### Credit Hours

Credit  
Hours  
Min:  
4

|                 |               |
|-----------------|---------------|
| Name            |               |
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 2               | 2             |

### Billing Hours

Billing  
Hours  
Min:  
4

|                |             |
|----------------|-------------|
| Name           |             |
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 4              | 4           |

### Simple Requisites

Corequisite  
Type  
Corequisite

Take DES-110 DES-125

# DES136 - Principles and Elements of Design II

## Overview

### Course Description

This course provides advanced study of design principles and elements. Emphasis is placed on color theory, pattern, and texture as used in design as well as an investigation of the psychology of color. Upon completion, students should be able to originate a color program for 2D and 3D exploration.

### Course ID

S24226

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

| State prerequisite    |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take DES-135          |
| Take DES-135(S10718); |

# DES210 - Professional Practices for Interior Design

## Overview

### Course Description

This course introduces contemporary business practices for interior design. Topics include employment skills, business formations, professional associations, preparation of professional contracts and correspondence, and means of compensation. Upon completion, students should be able to demonstrate an understanding of basic business practices as they relate to the interior design profession.

### Course ID

S24227

### Credit Hours

Credit Hours  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hours  
2

# DES220 - Interior Design Fundamentals

## Overview

### Course Description

This course provides an introduction to the application of interior design principles. Emphasis is placed on spatial relationships, material selections, craftsmanship, and visual presentation techniques. Upon completion, students should be able to apply interior design principles and illustrate design solutions through visual communication.

**Course ID**  
S24228

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 6       |          | 6    |

### Simple Requisites

| Local Prerequisite    |
|-----------------------|
| Type Prerequisite     |
| Take DES-125          |
| Take DES-125(S24222); |

### State prerequisite

Type Prerequisite

|                                                                                               |
|-----------------------------------------------------------------------------------------------|
| Take One Set: Set 1: DES-135 and ARC-111 Set 2: DES-110 Set 3: DFT-115                        |
| Take 1 group; # Take DES-135(S10718) ARC-111(S11683); # Take DES-110(S10337); # Take DFT-115; |

# DES225 - Textiles for Interiors

## Overview

### Course Description

This course includes the study of textiles and their applications for a variety of interiors. Emphasis is placed on history, manufacturing processes, fiber characteristics, and residential and non-residential applications. Upon completion, students should be able to specify appropriate textiles.

**Course ID**  
S24229

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

# DES230 - Residential Design I

## Overview

### Course Description

This course includes principles of interior design for various residential design solutions. Emphasis is placed on visual presentation and selection of appropriate styles to meet specifications. Upon completion, students should be able to present scaled floor plans, elevations, specifications, color schemes finishes and furniture selection.

### Course ID

S24230

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 6        | 6    |

## Simple Requisites

**Prerequisite**

Type  
Prerequisite

Take DES-125 DES-136 DES-220

Take DES-125(S24222) DES-136(S24226) DES-220(S24228);

# DES235 - Products

## Overview

### Course Description

This course provides an overview of interior products. Topics include floor coverings; wall coverings and finishes; ceilings, moldings, and furniture construction techniques; and other interior components. Upon completion, students should be able to identify and select appropriate materials and furnishings for interior spaces based on application.

### Course ID

S24231

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 2         | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |



# DES238 - Sustainable Interiors

## Overview

### Course Description

This course introduces basic concepts of sustainability and green design as they relate to interior environments. Topics include sustainable design principles, LEED and other sustainable rating and certification programs, low impact materials, indoor air quality, and energy and water conservation. Upon completion, students should be able to demonstrate a general understanding of the basic principles of sustainable interiors through hands-on application.

**Course ID**  
S24232

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# DES240 - Commercial and Contract Design I

## Overview

### Course Description

This course is designed to focus on commercial/contract design including retail, office, institutional, healthcare and hospitality design. Emphasis is placed on ADA requirements, building codes and standards, space planning, and selection of appropriate materials for non-residential interiors. Upon completion, students should be able to analyze design and present non-residential projects.

**Course ID**  
S24233

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 6             | 6              |      |

### Simple Requisites

#### Local Pre/Co-Requisite

**Type**  
Corequisite

Take DES-111

Take DES-111(S24220);

Local Prerequisites

Type  
Prerequisite

Take DES-120 and DES-130  
Take DES-120(S24221) DES-130(S24224);

State prerequisite

Type  
Prerequisite

Take DES-220  
Take DES-220(S21676);

# DES241 - Commercial/Contract Design II

## Overview

### Course Description

This course provides an in-depth study of non-residential design exploring more comprehensive design solutions such as health care facilities, furniture gallery design, and large office complexes. Emphasis is placed on design of commercial interiors and suitability of materials to meet ADA requirements, codes, and standards. Upon completion, students should be able to design non-residential spaces meeting ADA requirements and select furniture, materials, fabrics, and accessories meeting codes and flammability standards.

Course ID  
S21678

### Credit Hours

Credit  
Hours  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact         |               |
| Hours           | Load          |
| 1               | 1             |

### Billing Hours

Billing  
Hours  
3

| Name           |             |
|----------------|-------------|
| Lab/Shop Hours | Code<br>LAB |
| Contact        |             |
| Hours          | Load        |
| 6              | 6           |

### Simple Requisites

State prerequisite

Type

Prerequisite

Take DES-240

Take DES-240(S21677);

# DES242 - Kitchen and Bath Design

## Overview

### Course Description

This course covers the fundamentals of kitchen and bath design. Emphasis is placed on the principles and elements of kitchen and bath design, analysis of client needs, specifying products, and drafting design solutions. Upon completion, students should be able to produce basic kitchen and bath design utilizing standards established by the National Kitchen and Bath Association (NKBA).

### Course ID

S23672

### Credit Hours

Credit Hours  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing Hours  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

State prerequisite

Type

Prerequisite

Take One: ARC-111, DES-110, or DFT-115

Take DES-110(S10337) ARC-111(S11683) or DFT-115;

# DES243 - Advanced Kitchen and Bath Design

## Overview

### Course Description

This course covers advanced kitchen and bath design. Emphasis will be placed on universal design solutions, producing professional working documents, and mastery of developing and presenting a design concept and theme. Upon completion, students should be able to execute complex kitchen and bath designs.

### Course ID

S23673

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

| State prerequisite    |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take DES-242          |
| Take DES-242(S23624); |

# DES255 - History of Interiors and Furnishings I

## Overview

### Course Description

This course introduces architecture, interiors, and furnishings in a variety of historic styles from Prehistroic to Neoclassical. Emphasis is placed on vocabulary, chronology, and style recognition. Upon completion, students should be able to recognize, classify and describe major styles of furniture, interiors, and architecture.

### Course ID

S24234

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

# DES256 - History of Interiors and Furnishings II

## Overview

### Course Description

This course continues the study of architecture, interiors, and furnishings from a variety of historic styles from Colonial to Contemporary. Emphasis is placed on style recognition, vocabulary, and chronology. Upon completion, students should be able to recognize, classify and describe major styles of furniture, interiors, and exteriors.

### Course ID

S24235

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

Take DES-220(S24228) DES-235(S24231);

# DES260 - Materials Calculation / Interior Design

## Overview

### Course Description

This course includes the study of calculations for square footage, square yardage, and cut-length yardage. Emphasis is placed on the development of workable formulas, worksheets, and order forms that can be used in an interior design business. Upon completion, students should be able to produce electronic worksheets and order forms for calculating window treatments, wall coverings, and floor coverings for a given space.

### Course ID

S12551

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

#### Local Prerequisite

Type  
Prerequisite

Take DES-220 DES-235;

Take DES-110(S24219) DES-112;

# DES265 - Lighting/Interior Design

## Overview

### Course Description

This course introduces theory and contemporary concepts in lighting. Topics include light levels, light quality, lamps and fixtures, and their use and application in interior design. Upon completion, students should be able to visually communicate light concepts and requirements based on national standards and select solutions for specific lighting scenarios.

### Course ID

S24236

### Credit Hours

Credit  
Hours  
Min:  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 1               | 1     |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Simple Requisites

#### Local Prerequisite

Type  
Prerequisite

Take DES-110(S24219) DES-112;

# DES285 - Capstone/Interior Design

## Overview

### Course Description

This course provides additional studio time to investigate areas of special interest, upgrade weaknesses, and/or capitalize on strengths. Topics include a broad range of options, both residential and non-residential, combining individual research and instructional guidance. Upon completion, students should be able to complete the graphics, client folder, and all schedules for a professional project.

### Course ID

S24324

### Credit Hours

Credit  
Hours  
Min:  
4

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Simple Requisites

|                               |
|-------------------------------|
| State prerequisite            |
| Type Prerequisite             |
| Take All: DES-230 and DES-240 |

Take DES-230(S24230) DES-240(S24233);

### State concurrent or previous courses

Type  
Corequisite

Take DES-210  
Take DES-210(S24227);



# DFT100 - Marine Drafting

## Overview

### Course Description

This course introduces the student to the art of lofting. Topics include utilization of architectural ruler, battens, bevel sticks, trammel points and other lofting tools in order to draw a full size boat from a lines drawing. Upon completion, students should be able to loft a boat full size, determine stem and station bevels, draw deck crown, and expand transoms.

### Course ID

S23283

### Credit Hours

Credit Hours  
2

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 1               | Load | 1     |

### Billing Hours

Billing Hours  
2

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 2              | Load | 2   |

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type<br>Corequisite                  |
| Take BTB-101                         |
| Take BTB-101(S13156);                |

# DFT111 - Technical Drafting I

## Overview

### Course 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.

### Course ID

S16295

### Credit Hours

Credit Hours  
2

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 1               | Load | 1     |

### Billing Hours

Billing Hours  
2

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 3              | Load | 3   |

### Simple Requisites

|                                                  |
|--------------------------------------------------|
| Local Recommended Concurrent Or Previous Courses |
| Type<br>Corequisite                              |
| Take DFT-111A                                    |
| Take DFT-111A;                                   |

# DFT111A - Technical Drafting I Lab

## Overview

### Course 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.

### Course ID

S11814

### Credit Hours

Credit Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing Hours  
1

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type<br>Corequisite                  |
| Take DFT-111                         |
| Take DFT-111(S16295);                |

# DFT112 - Technical Drafting II Overview

## Course 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.

### Course ID

S16296

### Credit Hours

Credit Hours  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 1               | 1     |

### Billing Hours

Billing Hours  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Simple Requisites

|                     |
|---------------------|
| Local Corequisite   |
| Type<br>Corequisite |
| Take DFT-112A       |
| Take DFT-112A;      |

**State prerequisite**

**Type**  
**Prerequisite**

Take DFT-111

Take DFT-111(S16295);

# DFT112A - Technical Drafting II Lab

## Overview

### Course 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.

### Course ID

S10249

### Credit Hours

Credit  
Hours  
1  
Min:

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Billing Hours

Billing  
Hours  
1  
Min:

### Simple Requisites

**Prerequisite**

**Type**  
**Prerequisite**

Take DFT-111

Take DFT-111(S16295);

**State concurrent or previous courses**

Type

Corequisite

Take DFT-112

Take DFT-112(S16296);

# DFT119 - Basic CAD

## Overview

### Course Description

This course introduces computer-aided drafting software for specific technologies to non-drafting majors. Emphasis is placed on understanding the software command structure and drafting standards for specific technical fields. Upon completion, students should be able to create and plot basic drawings.

### Course ID

S13624

### Credit Hours

Credit Hours  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

### Billing Hours

Billing Hours  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

## Simple Requisites

Prerequisite

Type

Prerequisite

Take MAC-111 and MAC-132

Take MAC-111 MAC-132(S22991);

# DFT151 - CAD I

## Overview

### Course 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.

### Course ID

S13857

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

# DFT152 - CAD II

## Overview

### Course 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.

### Course ID

S20642

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

## Simple Requisites

### Prerequisite

Type  
Prerequisite

- Take DFT-151;
- Take DFT-151;

# DFT154 - Introduction to Solid Modeling

## Overview

### Course 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.

### Course ID

S20664

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 2               | Load | 2     |

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 3              | Load | 3   |

# DFT170 - Engineering Graphics Overview

### Course 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.

### Course ID

S20734

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 2               | Load | 2     |

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 2              | Load | 2   |

# DFT231 - Jig & Fixture Design

## Overview

### Course 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.

**Course ID**  
S20665

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

| Prerequisite  |              |
|---------------|--------------|
| Type          | Prerequisite |
| Take DFT-254  |              |
| Take DFT-254; |              |

# DFT254 - Intermediate Solid Modeling & Rendering

## Overview

### Course 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.

**Course ID**  
S20156

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take DFT-154

Take DFT-154(S20155);

# DME110 - Introduction to Digital Media

## Overview

### Course 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.

### Course ID

S20550

### Credit Hours

Credit  
Hours  
3

### Billing Hours

Billing  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# DRA111 - Theatre Appreciation

## Overview

### Course Description

This course provides a study of the art, craft, and business of the theatre. Emphasis is placed on the audience's appreciation of the work of the playwright, director, actor, designer, producer, and critic. Upon completion, students should be able to demonstrate a vocabulary of theatre terms and to recognize the contributions of various theatre artists.

### Course ID

S11248

### Credit Hours

Credit  
Hours  
3

### Billing Hours

Billing  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |



# DRA112 - Literature of the Theatre

## Overview

### Course Description

This course provides a survey of dramatic works from the classicalGreek through the present. Emphasis is placed on the language ofdrama, critical theory, and background as well as on play reading andanalysis. Upon completion, students should be able to articulate,orally and in writing, their appreciation and understanding ofdramatic works.

### Course ID

S10971

### Credit Hours

Credit Hours  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing Hours  
3

# DRA115 - Theatre Criticism

## Overview

### Course Description

This course is designed to develop a critical appreciation of the theatre from the viewpoint of the audience/consumer. Emphasis is placed on viewing, discussing, and evaluating selected theatre performance, either live or on film/video. Upon completion, students should be able to express their critical judgments both orally and in writing.

### Course ID

S11238

### Credit Hours

Credit Hours  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing Hours  
3

## Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take DRA-111       |
| Take DRA-111;      |

# DRA118 - Script Analysis for Actors, Directors and/or Designers

## Overview

### Course Description

This course provides a foundational study of the structure of plays for the theatre. Emphasis is placed on the study of plays from the earliest forms of theatre to the present, analyzed through elements of the dramatic text including character, action, genre, language, spectacle, structure, style and theme. Upon completion, students should be able to analyze plays for academic use, as well as for theatrical productions as actors, designers and/or directors.

### Course ID

S26171

### Credit Hours

Credit  
Hours  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3

# DRA120 - Voice for Performance

## Overview

### Course Description

This course provides guided practice in the proper production of speech for the theatre. Emphasis is placed on improving speech, including breathing, articulation, pronunciation, and other vocal variables. Upon completion, students should be able to demonstrate effective theatrical speech.

### Course ID

S12868

### Credit Hours

Credit  
Hours  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3

# DRA122 - Oral Interpretation

## Overview

### Course Description

This course introduces the dramatistic study of literature through performance. Emphasis is placed on analysis and performance of poetry, drama, and prose fiction. Upon completion, students should be able to embody and discuss critically the speakers inherent in literature.

### Course ID

S12397

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

#### Local English Prerequisite

Type  
Prerequisite

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take

BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

# DRA124 - Readers Theatre

## Overview

### Course Description

This course provides a theoretical and applied introduction to the medium of readers theatre. Emphasis is placed on the group performance considerations posed by various genres of literature. Upon completion, students should be able to adapt and present a literary script following the conventions of readers theatre.

### Course ID

S12856

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3

# DRA126 - Storytelling

## Overview

### Course Description

This course introduces the art of storytelling and the oral traditions of folk literature. Topics include the history of storytelling, its value and purpose, techniques of the storyteller, and methods of collecting verbal art. Upon completion, students should be able to present and discuss critically stories from the world's repertory of traditional lore.

### Course ID

S12896

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

# DRA128 - Children's Theatre

## Overview

### Course Description

This course introduces the philosophy and practice involved in producing plays for young audiences. Topics include the selection of age-appropriate scripts and the special demands placed on directors, actors, designers, and educators in meeting the needs of young audiences. Upon completion, students should be able to present and critically discuss productions for children.

### Course ID

S12864

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

# DRA130 - Acting I

## Overview

### Course Description

This course provides an applied study of the actor's craft. Topics include role analysis, training the voice, and body concentration, discipline, and self-evaluation. Upon completion, students should be able to explore their creativity in an acting ensemble.

### Course ID

S10305

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# DRA131 - Acting II

## Overview

### Course Description

This course provides additional hands-on practice in the actor's craft. Emphasis is placed on further analysis, characterization, growth, and training for acting competence. Upon completion, students should be able to explore their creativity in an acting ensemble.

### Course ID

S10315

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

## Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take DRA-130         |
| Take DRA-130;        |

# DRA132 - Stage Movement

## Overview

### Course Description

This course provides an applied study of selected principles of stage movement for actors. Topics include improvisation, mime, stage combat, clowning, choreography, and masks. Upon completion, students should be able to focus properly on stage, to create characters, and to improvise scenes, perform mimes, fight, clown, juggle, and waltz.

**Course ID**  
S20486

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
**Min:**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

| State concurrent or previous courses |
|--------------------------------------|
| Type                                 |
| Corequisite                          |
| Take DRA-111                         |
| Take DRA-111;                        |

# DRA135 - Acting for the Camera I

## Overview

### Course Description

This course provides an applied study of the camera actor's craft. Topics include commercial, dramatic, and print performance styles. Upon completion, students should be able to explore their creativity in on-camera performance.

**Course ID**  
S10316

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
**Min:**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

| Local Prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take DRA-130       |
| Take DRA-130;      |

# DRA136 - Acting for the Camera II

## Overview

### Course Description

This course provides additional hands-on study of the camera actor's craft. Emphasis is placed on more advanced camera acting theories, auditioning techniques, daytime drama, feature film, and print advertisement performance styles. Upon completion, students should be able to explore their creativity in on-camera performance.

### Course ID

S10289

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 4       |          | 4    |

## Simple Requisites

| State prerequisite   |
|----------------------|
| Type<br>Prerequisite |
| Take DRA-135         |
| Take DRA-135;        |

# DRA140 - Stagecraft I

## Overview

### Course Description

This course introduces the theory and basic construction of stage scenery and properties. Topics include stage carpentry, scene painting, stage electrics, properties, and backstage organization. Upon completion, students should be able to pursue vocational and avocational roles in technical theatre.

### Course ID

S11936

### Credit Hours

Credit Hours  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact        | Load |
| Hours          |      |
| 6              | 6    |

### Billing Hours

Billing Hours  
3

# DRA141 - Stagecraft II

## Overview

### Course Description

This course provides additional hands-on practice in the elements of stagecraft. Emphasis is placed on the design and implementation of the arts and crafts of technical theatre. Upon completion, students should be able to pursue vocational or avocational roles in technical theatre.

### Course ID

S12066

### Credit Hours

Credit  
Hours  
3  
3  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing  
Hours  
3  
3  
Min:

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take DRA-140       |
| Take DRA-140;      |

# DRA142 - Costuming

## Overview

### Course Description

This course covers the techniques of costume construction and crafts processes. Emphasis is placed on learning costuming techniques, using equipment and materials, and finishing production-appropriate costumes. Upon completion, students should be able to demonstrate an understanding of pattern drafting, construction techniques, and costume fitting procedures.

### Course ID

S11992

### Credit Hours

Credit  
Hours  
3  
3  
Min:

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hours  
3  
3  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |



# DRA144 - Introduction to the Basic Principles and Building Blocks for Costume, Scenery, Lighting, Projection and Sound Design for Live Entertainment

## Overview

### Course Description

This course provides a basic foundational study of costume, scenery, lighting and sound design for live entertainment. Emphasis is placed on basic techniques, language, methods and practice employed in live entertainment design. Upon completion, students should be able to practice all effective and creative aspects of live entertainment design.

### Course ID

S26172

### Credit Hours

Credit Hours  
3

|               |           |       |
|---------------|-----------|-------|
| Name          | Classroom | Code  |
| Hours         |           | CLASS |
| Contact Hours |           | Load  |
| 3             |           | 3     |

### Billing Hours

Billing Hours  
3

# DRA145 - Stage Make-Up

## Overview

### Course Description

This course covers the research, design, selection of materials, and application of stage make-up, prosthetics, wigs, and hairpieces. Emphasis is placed on the development of techniques, style, and presentation of the finished make-up. Upon completion, students should be able to create and apply make-up, prosthetics, and hairpieces.

### Course ID

S12089

### Credit Hours

Credit Hours  
2

|               |           |       |
|---------------|-----------|-------|
| Name          | Classroom | Code  |
| Hours         |           | CLASS |
| Contact Hours |           | Load  |
| 1             |           | 1     |

### Billing Hours

Billing Hours  
2

|               |          |      |
|---------------|----------|------|
| Name          | Lab/Shop | Code |
| Hours         |          | LAB  |
| Contact Hours |          | Load |
| 2             |          | 2    |

# DRA170 - Play Production I

## Overview

### Course Description

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production.

### Course ID

S10529

### Credit Hours

Credit Hours  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 9              | 9    |

### Billing Hours

Billing Hours  
3

# DRA171 - Play Production II

## Overview

### Course Description

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production.

### Course ID

S10530

### Credit Hours

Credit Hours  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 9              | 9    |

### Billing Hours

Billing Hours  
3

## Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take DRA-170       |
| Take DRA-170;      |

# DRA175 - Teleplay Production I

## Overview

### Course Description

This course provides an applied laboratory study of the processes involved in production of a dramatic television program. Emphasis is placed on the fundamental practices, principles, and techniques associated with producing dramatic television programming. Upon completion, students should be able to participate in an assigned position with a college dramatic television production.

### Course ID

S10542

### Credit Hours

Credit Hours  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 9              | 9    |

### Billing Hours

Billing Hours  
3

# DRA211 - Theatre History I

## Overview

### Course Description

This course covers the development of theatre from its origin to the closing of the British theatre in 1642. Topics include the history, aesthetics, and representative dramatic literature of the period. Upon completion, students should be able to trace the evolution of theatre and recognize the styles and types of world drama.

### Course ID

S10268

### Credit Hours

Credit Hours  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
3

# DRA212 - Theatre History II

## Overview

### Course Description

This course covers the development of theatre from 1660 through the diverse influences which shaped the theatre of the twentieth century. Topics include the history, aesthetics, and representative dramatic literature of the period. Upon completion, students should be able to trace the evolution of theatre and recognize the styles and types of world drama.

### Course ID

S10226

### Credit Hours

Credit Hours  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
3

# DRA230 - Acting III

## Overview

### Course Description

This course is designed to include an exploration of acting styles. Emphasis is placed on putting the actor's skills to work in a major theatrical form-musical, comedy, or drama. Upon completion, students should be able to explore their creativity in an acting ensemble.

### Course ID

S10671

### Credit Hours

Credit Hours  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing Hours  
3

## Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take DRA-131       |
| Take DRA-131;      |

# DRA231 - Acting IV

## Overview

### Course Description

This course is designed to include further exploration of acting styles. Emphasis is placed on putting the actor's skills to work in a major theatrical form-musical, comedy, or drama. Upon completion, students should be able to explore their creativity in an acting ensemble.

### Course ID

S10673

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take DRA-230       |
| Take DRA-230;      |

# DRA240 - Lighting for the Theatre

## Overview

### Course Description

This course is an applied study of theatre lighting and is designed to train theatre technicians. Emphasis is placed on lighting technology including the mechanics of lighting and light control equipment by practical work with lighting equipment. Upon completion, students should be able to demonstrate competence with lighting equipment.

### Course ID

S13476

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

# DRA260 - Directing

## Overview

### Course Description

This course provides an analysis and application of the techniques of theatrical directing. Topics include script selection, analysis, casting, rehearsal planning, blocking, stage business, tempo, and technical considerations. Upon completion, students should be able to plan, execute, and critically discuss a student-directed production.

### Course ID

S11775

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 6              | 6        |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

**State prerequisite**  
**Type**  
Prerequisite

Take DRA-130

Take DRA-130;

**State concurrent or previous courses**

**Type**  
**Corequisite**

Take DRA-140

Take DRA-140;

# DRA270 - Play Production III

## Overview

### Course Description

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production.

### Course ID

S11079

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 9              | 9    |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take DRA-171         |
| Take DRA-171;        |

# DRA271 - Play Production IV

## Overview

### Course Description

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production.

### Course ID

S11029

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 9              | 9    |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take DRA-270         |
| Take DRA-270;        |

# ECO151 - Survey of Economics

## Overview

### Course Description

This course, for those who have not received credit for ECO 251 or 252, introduces basic concepts of micro- and macroeconomics. Topics include supply and demand, optimizing economic behavior, prices and wages, money, interest rates, banking system, unemployment, inflation, taxes, government spending, and international trade. Upon completion, students should be able to explain alternative solutions for economic problems faced by private and government sectors.

**Course ID**  
S13257

### Credit Hours

**Credit Hours**  
3

| Name           | Classroom | Code        |
|----------------|-----------|-------------|
| Hours          |           | CLASS       |
| <b>Contact</b> |           |             |
| <b>Hours</b>   |           | <b>Load</b> |
| 3              |           | 3           |

### Billing Hours

**Billing Hours**  
3

# ECO251 - Principles of Microeconomics

## Overview

### Course 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.

**Course ID**  
S11774

### Credit Hours

**Credit Hours**  
3

| Name           | Classroom | Code        |
|----------------|-----------|-------------|
| Hours          |           | CLASS       |
| <b>Contact</b> |           |             |
| <b>Hours</b>   |           | <b>Load</b> |
| 3              |           | 3           |

### Billing Hours

**Billing Hours**  
3



# ECO252 - Principles of Macroeconomics

## Overview

### Course 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.

**Course ID**  
S11710

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
**Min:**  
3

# EDU119 - Introduction to Early Childhood Education

## Overview

### Course 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.

**Course ID**  
S25916

### Credit Hours

**Credit Hours**  
**Min:**  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 4               | 4          |

Billing Hours

Billin  
g  
Hour  
s  
Min:  
4

EDU131 - Child, Family, and  
Community

Overview

Course 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.

Course ID

S25339

Credit Hours

Credi  
t  
Hour  
s  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

Simple Requisites

|                       |
|-----------------------|
| Local Corequisite     |
| Type<br>Corequisite   |
| Take EDU-119          |
| Take EDU-119(S24238); |

EDU144 - Child Development I

Overview

Course 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.

Course ID

S25341

Credit Hours

Credit  
Hours  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

Billing Hours

Billing  
Hours  
3

Simple Requisites

|                   |
|-------------------|
| Local Corequisite |
|-------------------|

Type

Corequisite

Take EDU-119

Take EDU-119(S24238);

# EDU145 - Child Development II

## Overview

### Course 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.

### Course ID

S25342

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

| Local Prerequisite |
|--------------------|
|--------------------|

|                       |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take EDU-119          |
| Take EDU-119(S24238); |

# EDU146 - Child Guidance

## Overview

### Course 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.

### Course ID

S25343

### Credit Hours

Credit  
Hours  
3

|               |                |
|---------------|----------------|
| Name          | Classroom Code |
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

Billing  
Hours  
3

Simple Requisites

|                       |
|-----------------------|
| Local Prerequisite    |
| Type<br>Prerequisite  |
| Take EDU-119          |
| Take EDU-119(S24238); |

EDU151 - Creative Activities

Overview

Course 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.

Course ID

S25919

Credit Hours

Credit  
Hours  
3  
Min:  
3

|               |                |
|---------------|----------------|
| Name          | Classroom Code |
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

Billing Hours

Billing  
Hours  
3  
Min:  
3

# EDU151A - Creative Activities Lab

## Overview

### Course Description

This course provides a laboratory component to complement EDU 151. Emphasis is placed on practical experiences that enhance concepts introduced in the classroom. Upon completion, students should be able to demonstrate a practical understanding of the development and implementation of appropriate creative activities.

### Course ID

S25345

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type                                 |
| Corequisite                          |
| Take EDU-151                         |
| Take EDU-151(S25344);                |

# EDU153 - Health, Safety and Nutrition

## Overview

### Course 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.

### Course ID

S25348

### Credit Hours

Credit  
Hours  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

|                    |
|--------------------|
| Local Coerequisite |
| Type               |
| Corequisite        |

Take EDU-119

Take EDU-119(S24238);

# EDU162 - Observation and Assessment in Early Childhood Education

## Overview

### Course Description

This course introduces the research, benefits, goals, and ethical considerations associated with observation and formative assessment in early childhood education. Emphasis is placed on the implementation of multiple observation/assessment strategies including anecdotal records, event samples, rating scales, and portfolios to identify specific needs of individual children with diverse abilities and to create appropriate learning experiences. Upon completion, students should be able to practice responsible assessment and effectively use tools to assess the child, teacher practices and indoor and outdoor environments to enhance programming; and explain the importance of assessment partnerships with families and other professionals.

### Course ID

S25924

### Credit Hours

Credit Hours  
3

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
3



# EDU163 - Classroom Management and Instruction

## Overview

### Course 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.

**Course ID**  
S25925

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
3

# EDU177 - Instructional Methods

## Overview

### Course 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.

**Course ID**  
S25360

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

# EDU187 - Teaching and Learning for All

## Overview

### Course 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.

### Course ID

S25592

### Credit Hours

Credit  
Hours  
4

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
4

| Name           |      |
|----------------|------|
| Lab/Shop Hours | Code |
|                | LAB  |

| Contact Hours | Load |
|---------------|------|
| 3             | 3    |

# EDU188 - Trends and Policies in Early Childhood

## Overview

### Course Description

This course covers current topics and policies in the diverse and inclusive field of early childhood education that affect young children, families, communities, and professionals. Emphasis is placed on but not limited to advocacy, equity, bias and social justice, emerging research, professionalism, reflective practice, and legal/ethical concerns. Upon completion, student should be able to list, discuss, and explain current trends/policies in early childhood education as well as develop an advocacy plan based on course content.

### Course ID

S26024

### Credit Hours

Credit  
Hours  
3

Name  
Classroom Code  
Hours CLASS

Contact  
Hours Load  
3 3

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| Local Corequisite   |
|---------------------|
| Type<br>Corequisite |

Take EDU-119

Take EDU-119(S25916);

# EDU216 - Foundations of Education

## Overview

### Course 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.

### Course ID

S25368

### Credit Hours

Credit  
Hours  
3

Name  
Classroom Code  
Hours CLASS

Contact  
Hours Load  
3 3

### Billing Hours

Billing  
Hours  
3

# EDU221 - Children With Exceptionalities

## Overview

### Course 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 laws, policies and the NC Foundations for Early Learning and Development.

**Course ID**  
S25370

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   |               |
| 3               | Load<br>3     |

### Billing Hours

**Billing Hours**  
**Min:**  
3

## Simple Requisites

### Local Prerequisite

**Type**  
**Prerequisite**

Take EDU-119  
Take EDU-119(S24238);

### State prerequisite

**Type**  
**Prerequisite**

Take one set: Set 1: EDU-144 and EDU-145 Set 2: PSY-244 and PSY-245  
Take 1 group; # Take EDU-144(S25341) EDU-145(S25342); # Take PSY-244(S12069) PSY-245(S11997);

# EDU234 - Infants, Toddlers, and Twos

## Overview

### Course 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.

**Course ID**  
S25373

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name            |               |
|-----------------|---------------|
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

**Billing Hours**  
**Min:**  
3

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take EDU-119  
Take EDU-119(S24238);

### State prerequisite

Type  
Prerequisite

Take EDU-119  
Take EDU-119(S24238);

# EDU234A - Infants/Toddlers and Twos Lab

## Overview

### Course Description

This course focuses on practical applications that support the healthy development of children birth to 36 months by applying principles of quality, individualized, responsive/engaging relationships and experiences. Emphasis is placed on typical and atypical child development, positive early learning experiences, supporting and engaging diverse families, providing safe, warm and nurturing interactions, and the application of the NC Foundations for Early Learning and Development. Upon completion, students should be able to demonstrate the ability to engage in respectful, responsive care to support a foundation for healthy development and growth of children birth to 36 months culturally, linguistically, and ability diverse through responsive planning and positive exposure to a variety of experiences/materials.

### Course ID

S25374

### Credit Hours

Credit  
Hours  
1  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take EDU-119  
Take EDU-119(S24238);

### State concurrent or previous courses

Type  
Corequisite

Take EDU-234  
Take EDU-234(S25373);

# EDU235 - School-Age Development and Programs

## Overview

### Course Description

This course includes developmentally appropriate practices in group settings for school-age children. Emphasis is placed on principles of development, environmental planning, and positive guidance techniques and program development. Upon completion, students should be able to discuss developmental principles for culturally, linguistically, and ability diverse children ages five to twelve and plan and implement developmentally appropriate programs and activities.

### Course ID

S25375

### Credit Hours

Credit Hours  
3

| Name | Classroom Hours | Code  | Contact Hours | Load |
|------|-----------------|-------|---------------|------|
|      |                 | CLASS | 3             | 3    |

### Billing Hours

Billing Hours  
3

# EDU243 - Learning Theory

## Overview

### Course 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.

### Course ID

S26131

### Credit Hours

Credit Hours  
3

| Name | Classroom Hours | Code  | Contact Hours | Load |
|------|-----------------|-------|---------------|------|
|      |                 | CLASS | 3             | 3    |

### Billing Hours

Billing Hours  
3

# EDU250 - Teacher Licensure Preparation

## Overview

### Course 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.

### Course ID

S25134

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3

## Simple Requisites

### State prerequisite

Type  
Prerequisite

Take One Set: Set 1: ENG-111 and MAT-143 Set 2: ENG-111 and MAT-152 Set 3: ENG-111 and MAT-171

Take 1 group; # Take ENG-111(S25433) MAT-143(S24995); # Take ENG-111(S25433) MAT-152(S24996); # Take ENG-111(S25433) MAT-171(S25432);



# EDU251 - Exploration Activities

## Overview

### Course Description

This course covers fundamental concepts in the content areas of science, technology, engineering, math, and social studies through investigative experiences aligned with NC Foundations for Early Learning and Development. Emphasis is placed on exploring fundamental concepts, scope and sequence, and teaching strategies to engage each child through play and open-ended discovery in indoor/outdoor environments. Upon completion, students should be able to understand major concepts in each content area and implement developmentally appropriate, culturally responsive, equitable, and inclusive experiences for all young children.

**Course ID**  
S25929

### Credit Hours

**Credit Hours**  
**3**

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

**Billing Hours**  
**3**

# EDU251A - Exploration Activities Lab

## Overview

### Course Description

This course provides a laboratory component to practice content knowledge gained from EDU 251. Emphasis is placed on practical experience that enhances the fundamental concepts. Upon completion, students should be able to demonstrate the discovery approach to teaching and plan appropriate science, technology, engineering, math, and social studies experiences for each child.

**Course ID**  
S25383

### Credit Hours

**Credit Hours**  
**1**

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

**Billing Hours**  
**1**

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take EDU-119  
Take EDU-119(S24238);

**State concurrent or previous courses**

**Type**

**Corequisite**

Take EDU-251

Take EDU-251(S25382);

# EDU259 - Curriculum Planning

## Overview

### Course 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.

### Course ID

S25930

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 3               | 3     |

### Billing Hours

**Billing Hours**  
**Min:**  
3

### Simple Requisites

**State prerequisite**

**Type**

**Prerequisite**

Take EDU-119

Take EDU-119(S25916);

# EDU261 - Early Childhood Administration I

## Overview

### Course Description

This course introduces principles and practices essential to preparing and supporting child care administrators. Topics include program philosophy, policies and procedures, NC Child Care Law and Rules, business planning, personnel and fiscal management, and NAEYC Code of Ethical Conduct Supplement for Early Childhood Program Administration. Upon completion, students should be able to articulate a developmentally appropriate program philosophy, locate current state licensing regulations, analyze a business plan and examine comprehensive program policies and procedures.

### Course ID

S25391

### Credit Hours

Credit Hours  
3

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
3

### Simple Requisites

| State concurrent or previous courses |  |
|--------------------------------------|--|
| Type                                 |  |
| Corequisite                          |  |

Take EDU-119

Take EDU-119(S24238);

# EDU262 - Early Childhood Administration II

## Overview

### Course Description

This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs.

### Course ID

S25392

### Credit Hours

Credit  
Hours  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
Min:  
3

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take All: EDU-119 and EDU-261  
Take EDU-119(S24238) EDU-261(S25391);

# EDU270 - Effective Instructional Environments

## Overview

### Course Description

This course is designed to provide learners with the knowledge and skills to create, manage, and assess effective instructional environments, learning attitudes, and behaviors for today's diverse learning population.

Topics include organizing the learning environment, fostering positive learning attitudes, supporting healthy stakeholder partnerships, engaging students using effective differentiated instruction, guiding, and managing student behaviors, and assessing student progress.

Upon completion of this course, learners will demonstrate effective dispositions of the professional educator that include managing schedules, spaces, and resources, promoting supportive learning mindsets, engaging students with diverse instructional strategies, guiding student behaviors to maximize both the instructional and social climate, and analyzing and effectively responding to student progress.

### Course ID

S25948

### Credit Hours

Credit Hours  
2

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 2               | 2     |

Billing Hours

Billing  
Hours  
Min:  
2

EDU271 - Educational Technology

Overview

Course 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.

Course ID  
S25931

Credit Hours

Credit  
Hours  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

Billing Hours

Billing  
Hours  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

# EDU272 - Technology, Data, and Assessment

## Overview

### Course Description

This course is designed to provide students with the knowledge and skills to utilize digital instructional technologies and technology-based assessments to plan and implement appropriate educational experiences and interventions in the classroom. Topics include educational technology to enhance instruction, instructional technologies for teaching, technology-based assessment, formative and summative assessments, data to inform practice, and ethical practices for technology and assessment. Upon completion, students will be able to demonstrate effective integration of educational technology into classroom practice, appropriate use of technology-based assessments, and practical application of data to inform educational planning and interventions.

### Course ID

S25756

### Credit Hours

Credit  
Hours  
3  
Min:

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# EDU277 - Integrated Curriculum and Instructional Strategies: Math/Science

## Overview

### Course Description

This course is designed to provide learners with the content knowledge, instructional methods/materials, and assessment techniques needed to provide research-based math and science K - 12 instruction.

Topics include essential math and science concepts and skills, developmentally appropriate pedagogy, culturally responsive instruction, standards-based outcomes, technology enhanced lesson planning, formative/summative assessments, research-based interventions, authentic learning experiences, and reflective practice.

Upon completion, learners will be able to plan, implement, assess, and reflect on developmentally appropriate math and science instruction aligned to the NC Standard Course of Study, other professional and national standards.

### Course ID

S25949

### Credit Hours

Credit  
Hours  
3  
Min:

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name | Lab/Shop Hours | Code |
|------|----------------|------|
|      |                | LAB  |

|               |      |
|---------------|------|
| Contact Hours | Load |
| 3             | 3    |

# EDU278 - Integrated Curriculum and Instructional Strategies: Social Studies/ELA

## Overview

### Course Description

This course is designed to provide learners with the content knowledge, instructional methods/materials, and assessment techniques needed to provide research-based social studies and ELA K -12 instruction.

Topics include essential social studies and ELA concepts and skills, developmentally appropriate pedagogy, culturally responsive instruction, standards-based outcomes, technology enhanced lesson planning, formative/summative assessments, research-based interventions, authentic learning experiences, and reflective practice.

Upon completion, learners will be able to plan, implement, assess, and reflect on developmentally appropriate social studies and ELA instruction aligned to the NC Standard Course of Study, other professional and national standards.

### Course ID

S25950

### Credit Hours

Credit Hours  
3

|               |                |
|---------------|----------------|
| Name          | Classroom Code |
| Hours         | CLASS          |
| Contact Hours | Load           |
| 2             | 2              |

|       |               |
|-------|---------------|
| Name  | Lab/Shop Code |
| Hours | LAB           |



Billing Hours

Billing Hours  
Min:  
3

| Contact Hours | Load |
|---------------|------|
| 3             | 3    |

EDU279 - Literacy Development and Instruction  
Overview

Course 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.

Course ID  
S25593

Credit Hours

Credit Hours  
Min:  
4

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

| Name  | Lab/Shop Code |
|-------|---------------|
| Hours | LAB           |

Billing Hours

Billing  
Hours  
Min:  
4

| Contact Hours | Load |
|---------------|------|
| 3             | 3    |

EDU280 - Language and Literacy Experiences

Overview

Course 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.

Course ID  
S25396

Credit Hours

Credit  
Hours  
Min:  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

Billing Hours

Billing  
Hours  
Min:  
3

Simple Requisites

Local Prerequisite

Type

Prerequisite

Take EDU-119

Take EDU-119(S25916);

# EDU280A - Literacy Experiences Lab

## Overview

### Course Description

This course provides a laboratory component to complement EDU 280. Emphasis is placed on practical experiences that enhance concepts introduced in the classroom. Upon completion, students should be able to demonstrate a practical understanding of the development and implementation of appropriate early literacy experiences.

### Course ID

S25397

### Credit Hours

Credit Hours  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Billing Hours

Billing Hours  
1

### Simple Requisites

Local Prerequisite

Type

Prerequisite

Take EDU-119

Take EDU-119(S24238);

**Local Corequisite**

Type  
Corequisite

Take EDU-280

Take EDU-280(S24582);

**State concurrent or previous courses**

Type  
Corequisite

Take EDU-280

Take EDU-280(S25396);

# EDU283 - Educator Preparation Practicum

## Overview

### Course Description

This course is designed to allow learners to demonstrate acquired skills and competencies in a developmentally appropriate learning environment. Topics include dispositions of effective teachers, portfolio assessment development, reflective practice, teaching methods, assessment strategies, and professional practices based on state and national Teaching Standards.

Upon completion, learners should be able to provide a portfolio assessment with evidence of ethical/professional standards, respect for a diverse population in learning environments, content knowledge, appropriate guidance intervention, and grade-level technology enhanced lesson planning/assessments through practices in the classroom environment.

**Course ID**  
S25951

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

# EDU284 - Early Childhood Capstone Practicum

## Overview

### Course 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.

### Course ID

S25400

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 9             | 9              |      |

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take EDU-119  
Take EDU-119(S24238);

### State prerequisite

Type  
Prerequisite

Take One Set: Set 1: EDU-119, EDU-144, EDU-145, EDU-146, and EDU-151 Set 2: EDU-119, PSY-244, PSY-245, EDU-146, and EDU-151 Set 3: EDU-119, EDU-144, PSY-245, EDU-146, and EDU-151 Set 4: EDU-119, PSY-244, EDU-145, EDU-146, and EDU-151  
Take 1 group; # Take EDU-119(S24238) EDU-144(S24559) EDU-145(S24560) EDU-146(S24561) EDU-151(S24562); # Take EDU-119(S24238) PSY-244(S12069) PSY-245(S11997) EDU-146(S24561) EDU-151(S24562); # Take EDU-119(S24238) EDU-144(S24559) PSY-245(S11997) EDU-146(S24561) EDU-151(S24562); # Take EDU-119(S24238) PSY-244(S12069) EDU-145(S24560) EDU-146(S24561) EDU-151(S24562);

# EFL091 - Composition I

## Overview

### Course Description

This course introduces basic sentence structure and writing paragraphs. Emphasis is placed on word order, verb tense-aspect system, auxiliaries, word forms, and simple organization and basic transitions in writing paragraphs. Upon completion, students should be able to demonstrate a basic understanding of grammar and ability to write English paragraphs using appropriate vocabulary, organization, and transitions.

### Course ID

S10286

### Credit Hours

Credit  
Hours  
5

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 5         | 5     |

### Billing Hours

Billing  
Hours  
5

# EGR110 - Introduction to Engineering Technology

## Overview

### Course 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.

### Course ID

S20645

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# EGR115 - Introduction to Technology

## Overview

### Course Description

This course introduces the basic skills and career fields for technicians. Topics include career options, technical vocabulary, dimensional analysis, measurement systems, engineering graphics, calculator applications, professional ethics, safety practices, and other related topics. Upon completion, students should be able to demonstrate an understanding of the basic technologies, prepare drawings and sketches, and perform computations using a scientific calculator.

### Course ID

S20666

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 2             | 2               |      |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
|               |                |      |     |
| Contact Hours | Load           |      |     |
| 3             | 3              |      |     |

# EGR120 - Engineering and Design Graphics

## Overview

### Course Description

This course introduces the graphical tools for engineering and design communications. Emphasis is placed upon selecting the appropriate methods and tools and conveying ideas using sketches, orthographic views and projections, and computer graphics applications. Upon completion, students should be able to communicate essential features or two-dimensional and three-dimensional objects using the proper tools and methods.

### Course ID

S23536

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 2             | 2               |      |       |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
|               |                |      |     |
| Contact Hours | Load           |      |     |
| 2             | 2              |      |     |

# EGR150 - Introduction to Engineering

## Overview

### Course 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.

**Course ID**  
S20709

### Credit Hours

**Credit Hours**  
2

### Billing Hours

**Billing Hours**  
2

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 1             | 1               |      |       |

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
|               |                |      |     |
| Contact Hours | Load           |      |     |
| 2             | 2              |      |     |

# EGR210 - Intro to Electrical/Computer Engineering Lab

## Overview

### Course Description

This course provides an overview of electrical and computer engineering, through a lecture and laboratory setting. Topics include fundamental concepts, electronic circuits, digital circuits, communication systems, and signal processing. Upon completion, students should be able to discuss the wide range of fields available to the electrical or computer engineer.

**Course ID**  
S20143

### Credit Hours

**Credit Hours**  
2

### Billing Hours

**Billing Hours**  
2

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 1             | 1               |      |       |

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
|               |                |      |     |
| Contact Hours | Load           |      |     |
| 3             | 3              |      |     |

### Simple Requisites

**State prerequisite**

**Type**  
**Prerequisite**

Take All: MAT-271 and PHY-251



Take MAT-271(S13631) PHY-251(S12543);

## EGR212 - Logic System Design I

### Overview

#### Course Description

This course provides an introduction to digital circuits and analysis. Topics include Boolean Algebra; mixed logic; design of combinational circuits; introduction to sequential systems; and MSI building blocks. Upon completion, students should be able to analyze and design digital circuits and systems.

#### Course ID

S20145

#### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

#### Billing Hours

Billing  
Hour  
s  
Min:  
3

#### Simple Requisites

| State prerequisite                    |
|---------------------------------------|
| Type                                  |
| Prerequisite                          |
| Take All: MAT-271 and PHY-251         |
| Take MAT-271(S13631) PHY-251(S12543); |

## EGR214 - Numerical Methods for Engineers

### Overview

#### Course Description

This course introduces contemporary methods and tools for numerical analysis in engineering. Topics include numerical methods in differentiation, integration, root-finding, linear and non-linear regressions. Upon completion, students should be able to demonstrate: basic structured programming concepts involving decision making, loops, functions, and parameter passing; common numerical methods used in engineering analysis; estimation of the amount of error inherent in different numerical methods; assessment of numerical efficiency; method assessment of numerical efficiency; and convergence properties of different numerical methods.

#### Course ID

S25082

#### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

#### Billing Hours

Billing  
Hour  
s  
Min:  
3

#### Simple Requisites

| State prerequisite |
|--------------------|
|--------------------|

Type

Prerequisite

Take MAT-272

Take MAT-272(S23940);

# EGR215 - Network Theory I

## Overview

### Course Description

This course provides an introduction to Kirchoff's laws and terminal equations, circuit analysis techniques and network theorems, transient and natural response, and state variable analysis. Topics include Kirchoff's laws, Ohm's law, circuit analysis techniques, Network theorems, singularity functions, transient and natural responses, power, and state variable analysis. Upon completion, students should be able to analyze electric circuits involving capacitors, inductors, and resistors to determine required parameters.

### Course ID

S20147

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

## Simple Requisites

State prerequisite

Type

Prerequisite

Take All: MAT-272 and PHY-251

Take PHY-251(S12543) MAT-272(S13612);

State concurrent or previous courses

Type

Corequisite

Take PHY-252 and MAT-273

Take PHY-252 MAT-273(S13616);

# EGR216 - Logic and Network Lab

## Overview

### Course Description

This course provides laboratory experiments in network measurements and logic design and laboratory equipment and techniques. Topics include network measurement and applications, experimental logic design and introduction to laboratory equipment and techniques. Upon completion, students should be able to complete network measurement logic design and be able to use laboratory equipment with proper techniques.

### Course ID

S25154

### Credit Hours

Credit Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing Hours  
1

### Simple Requisites

State prerequisite

Type

Prerequisite

Take All: MAT-272 and PHY-251

Take PHY-251(S12543) MAT-272(S13612);

State concurrent or previous courses

Type

Corequisite

Take EGR-215

Take EGR-215;

# EGR220 - Engineering Statics

## Overview

### Course Description

This course introduces the concepts of engineering based on forces in equilibrium. Topics include concentrated forces, distributed forces, forces due to friction, and inertia as they apply to machines, structures, and systems. Upon completion, students should be able to solve problems which require the ability to analyze systems of forces in static equilibrium.

### Course ID

S13929

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

State prerequisite

Type

Prerequisite

Take PHY-251

Take PHY-251(S12543);

**State concurrent or previous courses**

**Type**

**Corequisite**

Take MAT-272

Take MAT-272(S13612);

# EGR225 - Engineering Dynamics

## Overview

### Course Description

This course introduces the concepts of engineering based on the analysis of motion in Cartesian, cylindrical, and spherical coordinate systems. Topics include the two and three dimensional motion of particles and rigid bodies, the forces associated with that motion, and relative motion between two coordinate systems. Upon completion, students should be able to solve problems which require the ability to analyze the motion and forces involved in a dynamic system.

### Course ID

S13963

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

**State prerequisite**

**Type**

**Prerequisite**

Take EGR-220

Take EGR-220;

State concurrent or previous courses

Type

Corequisite

Take MAT-273

Take MAT-273(S13616);

# EGR228 - Introduction to Solid Mechanics

## Overview

### Course Description

This course provides an introduction to engineering theory of deformable solids and applications. Topics include stress and deformation resulting from axial, torsion, and bending loads; shear and moment diagrams; Mohr's circle of stress; and strain and buckling of columns. Upon completion, students should be able to analyze solids subject to various forces and design systems using a variety of materials.

### Course ID

S20151

### Credit Hours

Credit Hours  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
3

### Simple Requisites

State prerequisite

Type

Prerequisite

Take EGR-220

Take EGR-220;

# EGR251 - Statics

## Overview

### Course Description

This course covers the concepts and principles of statics. Topics include systems of forces and moments on structures in two- and three-dimensions in equilibrium. Upon completion, students should be able to analyze forces and moments on structures.

### Course ID

S23502

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

| Prerequisite          |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take PHY-131          |
| Take PHY-131(S23976); |

# EGR252 - Strength of Materials

## Overview

### Course Description

This course covers the principles and concepts of stress analysis. Topics include centroids, moments of inertia, shear/moment diagrams, and stress and strain. Upon completion, students should be able to perform a stress and strain analysis on structural components.

### Course ID

S23503

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

| Prerequisite          |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take MEC-145          |
| Take MEC-145(S23498); |
| State prerequisite    |

Type

Prerequisite

Take EGR-251

Take EGR-251;

# ELC111 - Introduction to Electricity

## Overview

### Course 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.

### Course ID

S11841

### Credit Hours

Credit Hours  
3

| Name          | Classroom | Code |
|---------------|-----------|------|
| Hours         | CLASS     |      |
| Contact Hours | Load      |      |
| 2             | 2         |      |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop | Code |
|---------------|----------|------|
| Hours         | LAB      |      |
| Contact Hours | Load     |      |
| 2             | 2        |      |

# ELC112 - DC/AC Electricity

## Overview

### Course 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, and analyze simple DC/AC circuits.

### Course ID

S23481

### Credit Hours

Credit Hours  
3

| Name          | Classroom | Code |
|---------------|-----------|------|
| Hours         | CLASS     |      |
| Contact Hours | Load      |      |
| 3             | 3         |      |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop | Code |
|---------------|----------|------|
| Hours         | LAB      |      |
| Contact Hours | Load     |      |
| 6             | 6        |      |



# ELC113 - Residential Wiring

## Overview

### Course 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.

### Course ID

S23518

### Credit Hours

Credit  
Hours  
4  
Contact  
Hours  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
4  
Contact  
Hours  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 6       |          | 6    |

# ELC114 - Commercial Wiring

## Overview

### Course 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.

### Course ID

S23519

### Credit Hours

Credit  
Hours  
4  
Contact  
Hours  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
4  
Contact  
Hours  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 6       |          | 6    |

### Simple Requisites

#### Local Prerequisite

Type  
Prerequisite

Take ELC-112 and ELC-113

Take ELC-112(S23481) ELC-113(S23518);

# ELC115 - Industrial Wiring

## Overview

### Course 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.

**Course ID**  
S23520

### Credit Hours

**Credit Hours**  
**Min:**  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hours**  
**Min:**  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 6              | Load 6   |

### Simple Requisites

#### Local Prerequisites

**Type**  
**Prerequisite**

Take ELC-113 or ELC-112 and ELC-125 or ELC-125 and ELC-131

Take 1 group; # Take ELC-113(S23518) ELC-125; # Take ELC-112(S23481) ELC-125; # Take ELC-125 ELC-131(S23482);

# ELC117 - Motors and Controls

## Overview

### Course 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.

**Course ID**  
S23521

### Credit Hours

**Credit Hours**  
**Min:**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
**Min:**  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 6             | 6              |      |

### Simple Requisites

| Local Prerequisite                                                           |
|------------------------------------------------------------------------------|
| Type                                                                         |
| Prerequisite                                                                 |
| Take 1 course ELC-111 or ELC-112 or ELC-125 or ELC-131                       |
| Take 1 group; # Take ELC-111; # Take ELC-112(S23481); # Take ELC-125; # Take |

# ELC118 - National Electrical Code

## Overview

### Course 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.

**Course ID**  
S11926

### Credit Hours

**Credit Hours**  
**Min:**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
**Min:**  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

| Prerequisite                                     |
|--------------------------------------------------|
| Type                                             |
| Prerequisite                                     |
| Take ELC-111 ELC-112 or ELC-113                  |
| Take ELC-111 ELC-112(S23481) or ELC-113(S23518); |

# ELC119 - NEC Calculations

## Overview

### Course 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.

### Course ID

S11833

### Credit Hours

Credit Hours  
2

### Billing Hours

Billing Hours  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# ELC121 - Electrical Estimating

## Overview

### Course Description

This course covers the principles involved in estimating electrical projects. Topics include take-offs of materials and equipment, labor, overhead, and profit. Upon completion, students should be able to estimate simple electrical projects.

### Course ID

S21591

### Credit Hours

Credit Hours  
2

### Billing Hours

Billing Hours  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

#### Prerequisite

Type  
Prerequisite

Take ELC-113

Take ELC-113(S11805);

# ELC125 - Diagrams and Schematics

## Overview

### Course Description

This course covers the interpretation of electrical diagrams, schematics, and drawings common to electrical applications. Emphasis is placed on reading and interpreting electrical diagrams and schematics. Upon completion, students should be able to read and interpret electrical diagrams and schematics.

### Course ID

S10647

### Credit Hours

Credit Hour  
s  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

Billing Hour  
s  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# ELC128 - Introduction to Programmable Logic Controller

## Overview

### Course 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.

### Course ID

S23522

### Credit Hours

Credit Hour  
s  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing Hour  
s  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take ELC-111 or ELC-117 or ELC-131 or ELC-112

Take ELC-111 ELC-112(S23481)  
ELC-117(S23521) or ELC-131(S23482);

## ELC131 - Circuit Analysis I

### Overview

#### Course Description

This course introduces DC and AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC and AC 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, verify, and analyze DC/AC circuits; and properly use test equipment.

#### Course ID

S23482

#### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

#### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

## ELC133 - Circuit Analysis II

### Overview

#### Course Description

This course covers additional concepts of DC/AC electricity, the use of test equipment, and measurement techniques. Topics include the application of network theorems such as delta/wye transformations, Superposition Theorem, and other advanced circuit analysis principles. Upon completion, students should be able to construct and analyze DC/AC circuits used advanced circuit analysis theorems, circuit simulators, and test equipment.

#### Course ID

S23484

#### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

#### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

#### Prerequisite

Type  
Prerequisite

Take ELC-131

# ELC213 - Instrumentation

## Overview

### Course 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.

**Course ID**  
S21598

### Credit Hours

**Credit Hour**  
**s Min:**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hour**  
**s Min:**  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

| Prerequisite                                     |
|--------------------------------------------------|
| Type                                             |
| Prerequisite                                     |
| Take ELC-112 ELC-111 or ELC-131                  |
| Take ELC-112(S21587) ELC-111 or ELC-131(S21593); |

# ELC220 - Photovoltaic System Technology

## Overview

### Course 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.

**Course ID**  
S23449

### Credit Hours

**Credit Hour**  
**s Min:**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**s Min:**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# ELC221 - Advanced Photovoltaic System Designs

## Overview

### Course 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.

**Course ID**  
S23453

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

State prerequisite

**Type**  
**Prerequisite**

Take ELC-220  
Take ELC-220;



# ELC228 - Programmable Logic Controllers Applications

## Overview

### Course 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.

### Course ID

S21601

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 6       |          | 6    |

### Simple Requisites

| Prerequisite          |
|-----------------------|
| Type<br>Prerequisite  |
| Take ELC-128          |
| Take ELC-128(S10676); |

# ELC230 - Wind and Hydro Power Systems

## Overview

### Course Description

This course introduces concepts, designs, tools, techniques, and material requirements for systems that convert wind and water into usable energy. Topics include the analysis, measurement, and estimation of potential energy of wind and water systems. Upon completion, students should be able to demonstrate an understanding of the technologies associated with converting wind and water into a viable energy source.

### Course ID

S23454

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

# ELN114 - Marine Electronics

## Overview

### Course Description

This course introduces a wide variety of marine electronics that are used in the marine research industry. Topics include basic theory, AC/DC power systems, components, circuits, testing, troubleshooting, and installation of AC and DC marine electronics. Upon completion, students should be able to install, maintain, and operate basic marine electronics used in the marine research industry.

### Course ID

S21621

### Credit Hours

Credit Hours  
2

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 1               | Load | 1     |

### Billing Hours

Billing Hours  
2

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 2              | Load | 2   |

# ELN131 - Analog Electronics I

## Overview

### Course 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.

### Course ID

S23487

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 3              | Load | 3   |

### Simple Requisites

#### Prerequisite

Type  
Prerequisite

Take ELC-131 and MAT-121 or MAT-171  
Take 1 group; # Take ELC-131(S23482)  
MAT-121(S20804); # Take ELC-131(S23482)

# ELN132 - Analog Electronics II

## Overview

### Course Description

This course covers additional applications of analog electronic circuits with an emphasis on analog and mixed signal integrated circuits (IC). Topics include amplification, filtering, oscillation, voltage regulation, and other analog circuits. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog electronic circuits using appropriate techniques and test equipment.

### Course ID

S23509

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| Prerequisite          |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take ELN-131          |
| Take ELN-131(S23487); |

# ELN133 - Digital Electronics

## Overview

### Course 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.

### Course ID

S23488

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| Lcoal Prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take ELC-131       |

# ELN152 - Fabrication Techniques

## Overview

### Course 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.

**Course ID**  
S21631

### Credit Hours

**Credit Hours**  
**Min:**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

**Billing Hours**  
**Min:**  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# ELN231 - Industrial Controls

## Overview

### Course 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.

**Course ID**  
S21639

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
**Min:**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take ELC- 111 or ELC-112 or ELC-131

Take 1 group; # Take ELC-111; # Take ELC-131(S23482); # Take ELC-112(S23481);

# ELN234 - Communication Systems

## Overview

### Course Description

This course introduces the fundamentals of electronic communication systems. Topics include the frequency spectrum, electrical noise, modulation techniques, characteristics of transmitters and receivers, and digital communications. Upon completion, students should be able to interpret analog and digital communication circuit diagrams, analyze transmitter and receiver circuits, and use appropriate communication test equipment.

### Course ID

S21642

### Credit Hours

Credit Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

| Local Corequisite |             |
|-------------------|-------------|
| Type              | Corequisite |

Take ELN-133

Take ELN-133(S23488);

# ELN236 - Fiber Optics and Lasers

## Overview

### Course Description

This course introduces the fundamentals of fiber optics and lasers. Topics include the transmission of light; characteristics of fiber optic and lasers and their systems; fiber optic production; types of lasers; and laser safety. Upon completion, students should be able to understand fiber optic communications and basic laser fundamentals.

### Course ID

S20400

### Credit Hours

Credit Hour  
s  
Min:  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing Hour  
s  
Min:  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

Local Prerequisite

Type  
Prerequisite

Take ELC-111 or ELC-131

Take ELC-111 or ELC-131(S23482);

# ELN238 - Advanced LANs

## Overview

### Course Description

This course covers advanced concepts, tools, and techniques associated with servers, workstations, and overall local area network performance. Topics include network security and configuration, system performance and optimization, communication protocols and packet formats, troubleshooting techniques, multi-platform integration, and other related topics. Upon completion, students should be able to use advanced techniques to install, manage, and troubleshoot networks and optimize server and workstation performance.

### Course ID

S21645

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

Billing Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

# ELN275 - Troubleshooting

## Overview

### Course Description

This course covers techniques of analyzing and repairing failures in electronic equipment. Topics include safety, signal tracing, use of service manuals, and specific troubleshooting methods for analog, digital, and other electronics-based circuits and systems. Upon completion, students should be able to logically diagnose and isolate faults and perform necessary repairs to meet manufacturers' specifications. Not used at CFCC 5.16.07

### Course ID

S21659

### Credit Hours

Credit Hours  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

Billing Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

#### Local Prerequisite

Type  
Prerequisite

Take ELC-131

# EMS110 - EMT

## Overview

### Course 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.

### Course ID

S25182

### Credit Hours

Credit  
Hours  
9  
Min:

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 6               | 6     |

### Billing Hours

Billing  
Hours  
9  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 3              | 3     |

# EMS122 - EMS Clinical Practicum I

## Overview

### Course 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.

### Course ID

S25185

### Credit Hours

Credit  
Hours  
1  
Min:

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 3              | 3     |

### Billing Hours

Billing  
Hours  
1  
Min:

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type                  |
| Prerequisite          |
| Take EMS-110          |
| Take EMS-110(S25182); |



# EMS125 - EMS Instructor Methodology

## Overview

### Course 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.

**\*\*This is a Summer Only Class.\*\***

**Course ID**  
**S25186**

### Credit Hours

**Credit Hours**  
**3**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
**3**

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# EMS130 - Pharmacology Overview

### Course 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.

**Course ID**  
**S25187**

### Credit Hours

**Credit Hours**  
**4**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
**4**

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take EMS-110

Take EMS-110(S25182);

# EMS131 - Advanced Airway Management

## Overview

### Course 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.

**Course ID**  
**S25188**

### Credit Hours

**Credit Hours**  
**Min:**  
**2**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

### Billing Hours

**Billing Hours**  
**Min:**  
**2**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |
|                    |              |
|                    | Take EMS-110 |

Take EMS-110(S25182);

## EMS140 - Rescue Scene Management

### Overview

#### Course Description

This course introduces rescue scene management. Topics include response to hazardous material conditions, incident command, and extrication of patients from a variety of situations. Upon completion, students should be able to recognize and manage rescue operations based upon initial and follow-up scene assessment.

**Course ID**  
S23876

#### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

#### Billing Hours

**Billing Hours**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

## EMS160 - Cardiology I

### Overview

#### Course 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.

**\*\*This is a Spring Only Class.\*\***

**Course ID**  
S25189

#### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

#### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

#### Simple Requisites

State prerequisite

Type  
Prerequisite

Take EMS-110

Take EMS-110(S25182);

Take EMS-110(S25182);

# EMS210 - Advanced Patient Assessment

## Overview

### Course Description

This course covers advanced patient assessment techniques and is required for paramedic certification. Topics include initial assessment, medical-trauma history, field impression, complete physical exam process, on-going assessment, and documentation skills. Upon completion, students should be able to utilize basic communication skills and record and report collected patient data.

Course ID  
S25209

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take EMS-110       |

# EMS220 - Cardiology II

## Overview

### Course 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.

**Course ID**  
S25190

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Simple Requisites

|                                                       |
|-------------------------------------------------------|
| State prerequisite                                    |
| Type Prerequisite                                     |
| Take All: EMS-122, EMS-130, and EMS-160               |
| Take EMS-122(S25185) EMS-130(S25187) EMS-160(S25189); |

# EMS221 - EMS Clinical Practicum II

## Overview

### Course 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.

**Course ID**  
S25191

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name    | Clinical | Code  |
|---------|----------|-------|
| Hours   |          | CLINC |
| Contact |          |       |
| Hours   |          | Load  |
| 6       |          | 6     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

### Simple Requisites

|                                          |
|------------------------------------------|
| State prerequisite                       |
| Type Prerequisite                        |
| Take One: EMS-121 or EMS-122             |
| Take EMS-121(S25184) or EMS-122(S25185); |

# EMS231 - EMS Clinical Practicum III

## Overview

### Course 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.

Course ID  
S25192

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 9              | 9     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type Prerequisite     |
| Take EMS-221          |
| Take EMS-221(S25191); |

# EMS235 - EMS Management Overview

### Course 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.

Course ID  
S11658

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

# EMS240 - Patients With Special Challenges

Take All: EMS-122 and EMS-130

Take EMS-122(S23872) EMS-130(S23874);

## Overview

### Course 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.

Course ID  
S23919

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

### Simple Requisites

State prerequisite  
Type  
Prerequisite

# EMS241 - EMS Clinical Practicum IV

## Overview

### Course 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.

**Course ID**  
S25193

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
4

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 12             | 12    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
4

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type Prerequisite     |
| Take EMS-231          |
| Take EMS-231(S25192); |

# EMS250 - Medical Emergencies

## Overview

### Course 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.

**Course ID**  
S23921

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
4

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
4

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |



Simple Requisites

|                                       |
|---------------------------------------|
| State prerequisite                    |
| Type                                  |
| Prerequisite                          |
| Take All: EMS-122 and EMS-130         |
| Take EMS-122(S23872) EMS-130(S23874); |

EMS260 - Trauma Emergencies

Overview

Course 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.

Course ID  
S23922

Credit Hours

Credit  
Hours  
2

|               |                |
|---------------|----------------|
| Name          | Classroom Code |
| Hours         | CLASS          |
| Contact Hours | Load           |
| 1             | 1              |

Billing Hours

Billing  
Hours  
2

|               |               |
|---------------|---------------|
| Name          | Lab/Shop Code |
| Hours         | LAB           |
| Contact Hours | Load          |
| 3             | 3             |

Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take All: EMS-122 and EMS-130

Take EMS-122(S23872) EMS-130(S23874);

# EMS270 - Life Span Emergencies

## Overview

### Course 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.

**\*\*This is a Spring Only Class.\*\***

**Course ID**  
S25194

### Credit Hours

**Credit  
Hours  
Min:**  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing  
Hours  
Min:**  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact Hours  | Load     |
| 3              | 3        |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take All: EMS-122 and EMS-130

Take EMS-122(S25185) EMS-130(S25187);

# EMS280 - EMS Bridging Course

## Overview

**Course 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.

**Course ID**  
S25195

### Credit Hours

Credit Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

Billing Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

# EMS285 - EMS Capstone

## Overview

**Course 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.

**Course ID**  
S10931

### Credit Hours

Credit Hour  
s  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

Billing Hour  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Simple Requisites

State prerequisite  
Type  
Prerequisite

Take All: EMS-220, EMS-250, and EMS-260

Take EMS-220(S16342) EMS-250(S11267)

EMS-260(S10208);

## ENG025 - College English Skills

### Overview

#### Course 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.

**Course ID**  
S26300

#### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

#### Billing Hours

Billing  
Hours  
3  
Min:  
3

## ENG045 - English Skills Support

### Overview

#### Course 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.

**Course ID**  
S26299

#### Credit Hours

Credit  
Hours  
2  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

#### Billing Hours

Billing  
Hours  
2  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# ENG101 - Applied Communications I

## Overview

### Course Description

This course is designed to enhance reading and writing skills for the workplace. Emphasis is placed on technical reading, job-related vocabulary, sentence writing, punctuation, and spelling. Upon completion, students should be able to identify main ideas with supporting details and produce mechanically correct short writings appropriate to the workplace.

**Course ID**  
S12858

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 3                      | 3            |

### Billing Hours

**Billing Hours**  
3

# ENG111 - Writing and Inquiry

## Overview

### Course 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.

**Course ID**  
S26393

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 3                      | 3            |

### Billing Hours

**Billing Hours**  
3

## Simple Requisites

### Local Prerequisite

**Type**  
**Prerequisite**

Take 1 group; # Take DRE-097; # Take DRE-098; # Take ENG-002; From rule RMINP2; # Take BSP-4002; From rule BSPMINP2; # Take ENG-011; # Take ENG-025;

Take 1 group; # Take DRE-097(S23642); # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take ENG-011; # Take ENG-025;

# ENG112 - Writing and Research in the Disciplines

## Overview

### Course 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.

### Course ID

S24024

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

Billing Hours  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |
| Take ENG-111       |

Take ENG-111(S25433);

# ENG113 - Literature-Based Research

## Overview

### Course Description

This course, the second in a series of two, expands the concepts developed in ENG 111 by focusing on writing that involves literature-based research and documentation. Emphasis is placed on critical reading and thinking and the analysis and interpretation of prose, poetry, and drama: plot, characterization, theme, cultural context, etc. Upon completion, students should be able to construct mechanically-sound, documented essays and research papers that analyze and respond to literary works.

**Course ID**  
S13650

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
**Min:**  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |

Take ENG-111

Take ENG-111(S13673);

# ENG114 - Professional Research & Reporting

## Overview

### Course Description

This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations.

Course ID  
S13706

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take ENG-111         |



Take ENG-111(S13673);

## ENG125 - Creative Writing I

### Overview

#### Course Description

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing, fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others.

#### Course ID

S16350

#### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| 3       |           | 3     |

#### Billing Hours

Billing  
Hours  
3  
Min:  
3

#### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take ENG-111          |
| Take ENG-111(S13673); |

## ENG126 - Creative Writing II

### Overview

#### Course Description

This course is designed as a workshop approach for advancing imaginative and literary skills. Emphasis is placed on the discussion of style, techniques, and challenges for first publications. Upon completion, students should be able to submit a piece of their writing for publication.

#### Course ID

S12088

#### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| 3       |           | 3     |

#### Billing Hours

Billing  
Hours  
3  
Min:  
3

#### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take ENG-125          |
| Take ENG-125(S16350); |

# ENG127 - Fiction Writing: Writing and Publishing

## Overview

### Course Description

This course is designed to offer students instruction in the art of writing fiction, including short story, flash fiction, drama, novel excerpts, interactive storytelling, and other forms of fiction. Emphasis is placed on exploring techniques and forms in fiction, engaging in writing exercises, composing original works, critically examining contemporary short fiction and the work of peers, and preparing for careers in publishing and writing-intensive fields. Upon completion, students will be able to effectively apply craft techniques to original works of fiction; students will also be able to respond analytically to contemporary works of fiction and to prepare individual and peer work for publication.

**Course ID**  
S25722

### Credit Hours

**Credit Hour**  
**Min:**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**Min:**  
3

### Simple Requisites

State concurrent or previous courses

**Type**  
**Corequisite**

Take ENG-125  
Take ENG-125(S16350);

# ENG128 - Poetry Writing: Writing and Publishing

## Overview

### Course Description

This course is designed to offer students instruction in the art of writing poetry, including fixed, experimental, open, and digital forms. Emphasis is placed on exploring techniques and forms in poetry, engaging in writing exercises and composing original poems, critically examining contemporary poetry and the work of peers, and preparing for careers in publishing and writing-intensive fields. Upon completion, students will be able to effectively apply craft techniques to original works of poetry; students will also be able to respond analytically to contemporary works of poetry and prepare individual and peer work for publication.

**Course ID**  
S25723

### Credit Hours

**Credit**  
**t**  
**Hour**  
**s**  
**Min:**  
**3**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing**  
**g**  
**Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

State concurrent or previous courses

Type  
Corequisite

Take ENG-125  
Take ENG-125(S16350);

# ENG129 - Nonfiction Writing: Writing & Publishing

## Overview

### Course Description

This course is designed to offer students instruction in the art of writing creative nonfiction, including the sub-genres of: memoir, the critical essay, personal essay, literary journalism, digital: content writing, and other nonfiction forms. Emphasis is placed on exploring techniques and forms in creative nonfiction, composing original essays, critically examining contemporary nonfiction and the work of peers, and preparing for careers in publishing and writing-intensive fields. Upon completion, students will be able to effectively apply craft techniques to original works of nonfiction; students will also be able to respond analytically to contemporary works of creative nonfiction and prepare individual and peer work for publication.

### Course ID

S25724

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

## Simple Requisites

State concurrent or previous courses

Type  
Corequisite

Take ENG-125  
Take ENG-125(S16350);

# ENG131 - Introduction to Literature

## Overview

### Course Description

This course introduces the principal genres of literature. Emphasis is placed on literary terminology, devices, structure, and interpretation. Upon completion, students should be able to analyze and respond to literature.

Course ID  
S14000

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take ENG-111

Take ENG-111(S24022);

State concurrent or previous courses

Type  
Corequisite

Take One: ENG-112, ENG-113, or ENG-114

Take ENG-112(S24024) ENG-113 or  
ENG-114(S13706);

# ENG132 - Introduction to Drama

## Overview

### Course Description

This course provides intensive study of drama as a literary form, based on close reading of representative texts. Emphasis is placed on the development and analysis of drama. Upon completion, students should be able to interpret, analyze, and discuss the distinguishing features of drama.

### Course ID

S14023

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take ENG-111

Take ENG-111(S25433);

State concurrent or previous courses

Type  
Corequisite

Take One: ENG-112, ENG-113, or ENG-114

Take ENG-112(S24024) ENG-113 or  
ENG-114(S13706);

# ENG134 - Introduction to Poetry

## Overview

### Course Description

This course provides intensive study of the poem as a literary form, based on close reading of representative texts. Emphasis is placed on the development and analysis of poetry. Upon completion, students should be able to interpret, analyze, and discuss the distinguishing features of poetry.

**Course ID**  
S14032

### Credit Hours

**Credit**  
**Hours**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing**  
**Hours**  
**Min:**  
**3**

### Simple Requisites

**Recommended concurrent or previous courses**

Type  
Corequisite

**Take ENG-112, ENG-113 and ENG-114**  
Take ENG-112(S13681) ENG-113  
ENG-114(S13706);

#### State prerequisite

Type  
Prerequisite

**Take ENG-111**  
Take ENG-111(S13673);

#### State concurrent or previous courses

Type  
Corequisite

**Take One: ENG-112, ENG-113, or ENG-114**  
Take ENG-112(S24024) ENG-113 or  
ENG-114(S13706);

# ENG231 - American Literature I

## Overview

### Course 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.

**Course ID**  
S24025

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                                                  |
|--------------------------------------------------|
| <b>State prerequisite</b>                        |
| <b>Type</b>                                      |
| <b>Prerequisite</b>                              |
| <b>Take One: ENG-112, ENG 113, or ENG 114</b>    |
| Take ENG-112(S24024) ENG-113 or ENG-114(S13706); |

# ENG232 - American Literature II

## Overview

### Course 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.

**Course ID**  
S24026

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                                                  |
|--------------------------------------------------|
| <b>State prerequisite</b>                        |
| <b>Type</b>                                      |
| <b>Prerequisite</b>                              |
| <b>Take One: ENG-112, ENG-113, or ENG-114</b>    |
| Take ENG-112(S24024) ENG-113 or ENG-114(S13706); |



# ENG233 - Major American Writers

## Overview

### Course Description

This course provides an intensive study of the works of several major American authors. Emphasis is placed on American history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied.

Course ID  
S13908

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                                                     |
|-----------------------------------------------------|
| State prerequisite                                  |
| Type<br>Prerequisite                                |
| Take One: ENG-112, or ENG-113, or ENG-114           |
| Take ENG-112(S13681) ENG-113 or<br>ENG-114(S13706); |

# ENG235 - Survey of Film As Lit

## Overview

### Course Description

This course provides a study of the medium of film with a focus on the historical impact and the various literary genres of movies. Emphasis is placed on an appreciation of film as a form of literature which demonstrates various elements of fiction (character, setting, theme, etc.). Upon completion, students should be able to analyze film critically in various literary contexts.

Course ID  
S21137

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take ENG-113         |
| Take ENG-113;        |

# ENG241 - British Literature I

## Overview

### Course 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.

### Course ID

S11763

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                                                     |
|-----------------------------------------------------|
| State prerequisite                                  |
| Type<br>Prerequisite                                |
| Take ENG-112, ENG-113, or ENG-114                   |
| Take ENG-112(S24024) ENG-113 or<br>ENG-114(S13706); |

# ENG242 - British Literature II

## Overview

### Course 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.

### Course ID

S11698

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                                                     |
|-----------------------------------------------------|
| State prerequisite                                  |
| Type<br>Prerequisite                                |
| Take One: ENG-112, ENG-113, or ENG-114              |
| Take ENG-112(S13681) ENG-113 or<br>ENG-114(S13706); |

# ENG243 - Major British Writers

## Overview

### Course Description

This course provides an intensive study of the works of several major British authors. Emphasis is placed on British history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied.

Course ID  
S11728

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                                                  |
|--------------------------------------------------|
| State prerequisite                               |
| Type<br>Prerequisite                             |
| Take One: ENG-112, ENG-113, or ENG-114           |
| Take ENG-112(S13681) ENG-113 or ENG-114(S13706); |

# ENG251 - Western World Literature I

## Overview

### Course Description

This course provides a survey of selected European works from the Classical period through the Renaissance. 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.

Course ID  
S14255

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                                                  |
|--------------------------------------------------|
| State prerequisite                               |
| Type<br>Prerequisite                             |
| Take One: ENG-112, ENG-113, or ENG-114           |
| Take ENG-112(S13681) ENG-113 or ENG-114(S13706); |

# ENG252 - Western World Literature II

## Overview

### Course Description

This course provides a survey of selected European works from the Neoclassical 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 selected works.

**Course ID**  
S14203

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                                                  |
|--------------------------------------------------|
| State prerequisite                               |
| Type Prerequisite                                |
| Take One: ENG-112, ENG-113, or ENG-114           |
| Take ENG-112(S13681) ENG-113 or ENG-114(S13706); |

# ENG253 - The Bible As Literature

## Overview

### Course Description

This course introduces the Hebrew Old Testament and the Christian New Testament as works of literary art. Emphasis is placed on the Bible's literary aspects including history, composition, structure, and cultural contexts. Upon completion, students should be able to identify and analyze selected books and passages using appropriate literary conventions.

**Course ID**  
S14261

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                                        |
|----------------------------------------|
| State prerequisite                     |
| Type Prerequisite                      |
| Take One: ENG-112, ENG-113, or ENG-114 |
| Take ENG-112(S13681) ENG-113 or        |

ENG-114(S13706);

# ENG261 - World Literature I

## Overview

### Course 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.

### Course ID

S12708

### Credit Hours

Credit Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

Billing Hours  
3

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take One: ENG-112, ENG-113, or ENG-114

Take ENG-112(S13681) ENG-113 or  
ENG-114(S13706);

# ENG262 - World Literature II

## Overview

### Course 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.

Course ID  
S12600

### Credit Hours

Credit  
Hours  
3  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
3  
Min:  
3

### Simple Requisites

|                                                     |
|-----------------------------------------------------|
| State prerequisite                                  |
| Type<br>Prerequisite                                |
| Take One: ENG-112, ENG-113, or ENG-114              |
| Take ENG-112(S13681) ENG-113 or<br>ENG-114(S13706); |

# ENG271 - Contemporary Literature

## Overview

### Course Description

This course includes a study of contemporary literature. Emphasis is placed on literary and cultural trends of selected texts. Upon completion, students should be able to interpret, analyze, and respond to the literature.

Course ID  
S13555

### Credit Hours

Credit  
Hours  
3  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
3  
Min:  
3

### Simple Requisites

|                                                     |
|-----------------------------------------------------|
| State prerequisite                                  |
| Type<br>Prerequisite                                |
| Take One: ENG-112, ENG-113, or ENG-114              |
| Take ENG-112(S13681) ENG-113 or<br>ENG-114(S13706); |

# ENG272 - Southern Literature

## Overview

### Course Description

This course provides an analytical study of the works of several Southern authors. Emphasis is placed on the historical and cultural contexts, themes, aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works.

Course ID  
S13535

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                                                     |
|-----------------------------------------------------|
| State prerequisite                                  |
| Type<br>Prerequisite                                |
| Take One: ENG-112, ENG-113, or ENG-114              |
| Take ENG-112(S13681) ENG-113 or<br>ENG-114(S13706); |

# ENG273 - African-American Literature

## Overview

### Course Description

This course provides a survey of the development of African-American literature from its beginnings to the present. Emphasis is placed on historical and cultural context, themes, literary traditions, and backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and respond to selected texts.

Course ID  
S13578

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                                                     |
|-----------------------------------------------------|
| State prerequisite                                  |
| Type<br>Prerequisite                                |
| Take One: ENG-112, ENG-113, or ENG-114              |
| Take ENG-112(S13681) ENG-113 or<br>ENG-114(S13706); |

# ENG274 - Literature by Women

## Overview

### Course Description

This course provides an analytical study of the works of several women authors. Emphasis is placed on the historical and cultural contexts, themes and aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works.

Course ID  
S13548

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                                                     |
|-----------------------------------------------------|
| State prerequisite                                  |
| Type<br>Prerequisite                                |
| Take One: ENG-112, ENG-113, or ENG-114              |
| Take ENG-112(S13681) ENG-113 or<br>ENG-114(S13706); |

# ENG275 - Science Fiction

## Overview

### Course Description

This course covers the relationships between science and literature through analysis of short stories and novels. Emphasis is placed on scientific discoveries that shaped Western culture and our changing view of the universe as reflected in science fiction literature. Upon completion, students should be able to trace major themes and ideas and illustrate relationships between science, world view, and science fiction literature.

Course ID  
S13564

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                                        |
|----------------------------------------|
| State prerequisite                     |
| Type<br>Prerequisite                   |
| Take One: ENG-112, ENG-113, or ENG-114 |
| Take ENG-112(S13681) ENG-113 or        |



# ENV110 - Environmental Science

## Overview

### Course Description

This course covers fundamental scientific principles and problems facing society today. Topics include population, natural resources, air and water pollution, and waste disposal problems. Upon completion, students should be able to demonstrate insight into the role the individual plays in shaping the environment.

**Course ID**  
S23360

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# EPT120 - Sociology of Disaster Overview

### Course Description

This course is designed to overview sociological disaster research, disaster systems, and alternative research approaches. Topics include human and organizational behaviors, long disaster impact on communities, disaster warning, and evacuation considerations. Upon completion, students should be able to assess and predict the impact of disaster-related human behavior.

**Course ID**  
S20530

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# EPT124 - Emergency Management Services Law & Ethics

## Overview

### Course Description

This course covers federal and state laws that affect emergency service personnel in the event of a natural disaster or terrorist incident. Topics include initial response and long-term management strategies, with an emphasis on legal and ethical considerations and coordination between local, state, and federal agencies. Upon completion, students should have an understanding of the role of private industry, government agencies, public policies, and federal/state declarations of disasters in emergency situations.

**Course ID**  
S22188

### Credit Hours

**Credit Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# EPT130 - Mitigation & Preparedness

## Overview

### Course Description

This course introduces the mitigation and preparation techniques and methods necessary to minimize the impact of natural, technological, and man-made disasters. Topics include hazard identification and mapping, design and construction applications, financial incentives, insurance, structural controls, preparation, planning, assessment, implementation, and exercises. Upon completion students should be able to develop a mitigation and preparedness plan.

**Course ID**  
S22189

### Credit Hours

**Credit Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# EPT140 - Emergency Management

## Overview

### Course Description

This course covers the four phases of emergency management: mitigation, preparedness, response, and recovery. Topics include organizing for emergency management, coordinating for community resources, public sector liability, and the roles of government agencies at all levels. Upon completion, students should be able to demonstrate an understanding of comprehensive emergency management and the integrated emergency management system.

**Course ID**  
S23936

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# EPT150 - Incident Management

## Overview

### Course Description

This course introduces the National Incident Management System (NIMS). Topics include integrating command and control systems, maintaining communication within command and control systems, and using NIMS procedures. Upon completion, students should be able to demonstrate knowledge of key concepts necessary for operating within the National Incident Management System.

**Course ID**  
S22186

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# EPT210 - Response & Recovery

## Overview

### Course Description

This course introduces the basic concepts, operational procedures, and authorities involved in response and recovery efforts to major disasters. Topics include federal, state, and local roles and responsibilities in major disaster, response, and recovery work, with an emphasis on governmental coordination. Upon completion, students should be able to implement a disaster response plan and assess the needs of those involved in a major disaster.

Course ID  
S22187

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

# EPT220 - Terrorism and Emergency Management

## Overview

### Course Description

This course covers preparing for, responding to, and safely mitigating terrorism incidents. Topics include the history of terrorism, scene hazards, evidence preservation, risk assessment, roles and responsibilities, explosive recognition, and terrorism planning. Upon completion, students should be able to recognize the threat of terrorism and operate within the emergency management framework at a terrorism incident.

Course ID  
S22024

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

# EPT230 - Emergency Planning

## Overview

### Course Description

This course covers the rationale for and methods related to a comprehensive approach to emergency planning. Topics include the emergency planning process, command arrangement, coordination, budgetary issues, environmental contamination issues, and public policy concerns. Upon completion, students should be able to develop an emergency plan for a community.

### Course ID

S22191

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
3

# EPT260 - Business Continuity

## Overview

### Course Description

This course covers emergency preparedness techniques necessary to maintain business continuity. Topics include critical processes, planning, risk assessment, impact analysis, mitigation strategies, response, recovery and resumption activities. Upon completion, students should be able to demonstrate a working knowledge of the partnership between business and emergency response.

### Course ID

S22192

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
3

# EPT275 - Emergency Operations Center Management

## Overview

### Course Description

This course provides students with the knowledge and skills to effectively manage and operate an emergency operations center (EOC) during crisis situations. Topics include properly locating and designing an EOC, staffing, training and briefing EOC personnel, and how to operate an EOC. Upon completion, students should be able to demonstrate how to set up and operate an effective emergency operations center.

**Course ID**  
S22025

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 3         | 3    |

### Billing Hours

**Billing Hours**  
3

# FIP120 - Introduction to Fire Protection

## Overview

### Course Description

This course provides an overview of the development, methods, systems and regulations that apply to the fire protection field. Topics include history, evolution, statistics, suppression, organizations, careers, curriculum, and related subjects. Upon completion, students should be able to demonstrate a broad understanding of the fire protection field.

**Course ID**  
S23882

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 3         | 3    |

### Billing Hours

**Billing Hours**  
3

# FIP124 - Fire Prevention & Public Education

## Overview

### Course Description

This course introduces fire prevention concepts as they relate to community and industrial operations referenced in NFPA standard 101. Topics include the development and maintenance of fire prevention programs, educational programs, and inspection programs. Upon completion, students should be able to research, develop, and present a fire safety program to a citizens or industrial group.

**Course ID**  
S23883

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# FIP128 - Detection and Investigation

## Overview

### Course Description

This course covers procedures for determining the origin and cause of accidental and incendiary fires referenced in NFPA standard 921. Topics include collection and preservation of evidence, detection and determination of accelerants, courtroom procedure and testimony, and documentation of the fire scene. Upon completion, students should be able to conduct a competent fire investigation and present those findings to appropriate officials or equivalent.

**Course ID**  
S23884

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# FIP132 - Building Construction

## Overview

### Course Description

This course covers the principles and practices reference in NFPA standard 220 related to various types of building construction,including residential and commercial, as impacted by fire conditions. Topics include types of construction and related elements, fire resistive aspects of construction materials, building codes, collapse, and other related topics. Upon completion, students should be able to understand and recognize various types of construction and their positive or negative aspects as related to fire conditions.

**Course ID**  
S23885

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# FIP136 - Inspections and Codes

## Overview

### Course Description

This course covers the fundamentals of fire and building codes and procedures to conduct an inspection referenced in NFPA standard 1730. Topics include review of fire and building codes, writing inspection reports, identifying hazards, plan reviews, site sketches, and other related topics. Upon completion, students should be able to conduct a fire code compliance inspection and produce a written report.

**Course ID**  
S23886

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**



# FIP152 - Fire Protection Law

## Overview

### Course Description

This course covers fire protection law as referenced in NFPA standard 1. Topics include legal terms, contracts, liability, review of case histories, and other related topics. Upon completion, students should be able to discuss laws, codes, and ordinances as they relate to fire protection.

Course ID  
S23888

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3

# FIP156 - Computers in Fire Service

## Overview

### Course Description

This course covers the use of computers by fire protection organizations. Topics include operating systems, networking concepts, fire incident reporting systems, and other software applications in fire protection. Upon completion, students should be able to demonstrate knowledge of computers and their applications to fire protection.

Course ID  
S23890

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# FIP162 - Firefighter Safety and Wellness

## Overview

### Course Description

The purpose of this course is to reduce firefighter injuries and fatalities by discussing topics that impact firefighter safety. Emphasis is placed on national standards, the 16 Life Safety Initiatives, and current events to identify changes needed to create a culture of safety. Upon completion, students should be able to define and describe the need for cultural and behavioral changes within the emergency services.

**Course ID**  
S24210

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

|               |                |
|---------------|----------------|
| Name          | Classroom Code |
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

# FIP164 - OSHA Standards

## Overview

### Course Description

This course covers public and private sector OSHA work site requirements referenced in NFPA standard 1250. Emphasis is placed on accident prevention and reporting, personal safety, machine operations, and hazardous material handling. Upon completion, students should be able to analyze and interpret specific OSHA regulations and write workplace policies designed to achieve compliance.

**Course ID**  
S23893

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

|               |                |
|---------------|----------------|
| Name          | Classroom Code |
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

# FIP220 - Fire Fighting Strategies

## Overview

### Course Description

This course provides preparation for command of initial incident operations involving emergencies within both the public and private sector referenced in NFPA standards 1561, 1710, and 1720. Topics include incident management, fire-ground tactics and strategies, incident safety, and command/control of emergency operations. Upon completion, students should be able to describe the initial incident system as it relates to operations involving various emergencies in fire and non-fire situations.

**Course ID**  
S23898

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# FIP221 - Advanced Fire Fighting Strategies

## Overview

### Course Description

This course covers command-level operations for multi-company/agency operations involving fire and non-fire emergencies. Topics include advanced use of the Incident Command System(ICS), advanced incident analysis, command-level fire operations, and control of both man made and natural major disasters. Upon completion, students should be able to describe proper and accepted systems for the mitigation of emergencies at the level of overall scene command.

**Course ID**  
S23899

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take FIP-220

Take FIP-220(S23898);

## FIP228 - Local Government Finance

### Overview

#### Course Description

This course introduces local governmental financial principles and practices. Topics include budget preparation and justification, revenue policies, statutory requirements, audits, and the economic climate. Upon completion, students should be able to comprehend the importance of finance as it applies to the operations of a department.

Course ID  
S23902

#### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

#### Billing Hours

Billing  
Hours  
3

## FIP229 - Fire Dynamics and Combustion

### Overview

#### Course Description

This course covers the theories and fundamentals of how and why fires start and spread, and how they are safely controlled referenced in NFPA standard 1001. Topics include components of fire, fire sources, fire behavior, properties of combustible solids, classification of hazards, and the use of fire extinguishing agents. Upon completion, students should be able to describe the properties of matter and dynamics of fire, identify fuel sources, and compare suppressants and extinguishment techniques.

Course ID  
S23903

#### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

#### Billing Hours

Billing  
Hours  
3

# FIP240 - Fire Service Supervision

## Overview

### Course Description

This course covers supervisory skills and practices in the fire protection field. Topics include the supervisor's job, supervision skills, the changing work environment, managing change, organizing for results, discipline and grievances, and safety. Upon completion, students should be able to demonstrate an understanding of the roles and responsibilities of effective fire service supervision, meeting elements of NFPA 1021.

**Course ID**  
S23908

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# FIP256 - Municipal Public Relations

## Overview

### Course Description

This course is a general survey of municipal public relations and their effect on the governmental process referenced in NFPA standard 1035. Topics include principles of public relations, press releases, press conferences, public information officers, image surveys, and the effects of perceived service on fire protection delivery. Upon completion, students should be able to manage public relations functions of organizations which meet elements of NFPA 1021 for Fire Officer I and II.

**Course ID**  
S23912

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# FIP276 - Managing Fire Services

## Overview

### Course Description

This course provides an overview of fire department operative services referenced in NFPA standard 1021. Topics include finance, staffing, equipment, code enforcement, management information, specialized services, legal issues, planning, and other related topics. Upon completion, students should be able to understand concepts and apply fire department management and operations principles.

**Course ID**  
S23917

### Credit Hours

**Credit Hours**  
3

|                        |                   |
|------------------------|-------------------|
| <b>Name</b>            |                   |
| <b>Classroom Hours</b> | <b>Code CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>       |
| 3                      | 3                 |

### Billing Hours

**Billing Hours**  
3

# FRE111 - Elementary French I

## Overview

### Course 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.

**Course ID**  
S11554

### Credit Hours

**Credit Hours**  
3

|                        |                   |
|------------------------|-------------------|
| <b>Name</b>            |                   |
| <b>Classroom Hours</b> | <b>Code CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>       |
| 3                      | 3                 |

### Billing Hours

**Billing Hours**  
3

# FRE112 - Elementary French II

## Overview

### Course 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.

**Course ID**  
S11626

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take FRE-111       |
| Take FRE-111;      |

# FRE141 - Culture and Civilization

## Overview

### Course Description

This course, taught in English, provides an opportunity to explore issues related to the Francophone world. Topics include historical and current events, geography, and customs. Upon completion, students should be able to identify and discuss selected topics and cultural differences related to the Francophone world.

**Course ID**  
S10038

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# FRE151 - Francophone Literature

## Overview

### Course Description

This course includes selected readings by Francophone writers. Topics include fictional and non-fictional works by representative authors from a variety of genres and literary periods. Upon completion, students should be able to analyze and discuss selected texts within relevant cultural and historical contexts.

Course ID  
S12355

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take ENG-111          |
| Take ENG-111(S13673); |

# FRE161 - Cultural Immersion

## Overview

### Course Description

This course explores Francophone culture through intensive study on campus and field experience in a host country or area. Topics include an overview of linguistic, historical, geographical, sociopolitical, economic, and/or artistic concerns of the area visited. Upon completion, students should be able to exhibit first-hand knowledge of issues pertinent to the host area and demonstrate an understanding of cultural differences.

Course ID  
S10918

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take FRE-111         |



Take FRE-111;

# FRE181 - French Lab 1

## Overview

### Course 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.

### Course ID

S10406

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

### Simple Requisites

| Local Recommended Concurrent Or Previous Courses |
|--------------------------------------------------|
| Type<br>Corequisite                              |
| Take FRE-111                                     |

# FRE182 - French Lab 2

## Overview

### Course 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.

### Course ID

S10371

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

### Simple Requisites

Recommended concurrent or previous courses

Type  
Corequisite

Take FRE-112

Take FRE-112;

### State prerequisite

Type  
Prerequisite

Take FRE-181

Take FRE-181;

# FRE211 - Intermediate French I

## Overview

### Course Description

This course provides a review and expansion of the essential skills of the French 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.

**Course ID**  
S12685

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |
| Take FRE-112       |
| Take FRE-112;      |

# FRE212 - Intermediate French II

## Overview

### Course Description

This course is a continuation of FRE 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.

**Course ID**  
S12610

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |
| Take FRE-211       |
| Take FRE-211;      |

# FRE221 - French Conversation

## Overview

### Course Description

This course provides an opportunity for intensive communication in spoken French. Emphasis is placed on vocabulary acquisition and interactive communication through the discussion of media materials and authentic texts. Upon completion, students should be able to discuss selected topics, express ideas and opinions clearly, and engage in formal and informal conversations.

**Course ID**  
S10196

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take FRE-212       |
| Take FRE-212;      |

# FRE231 - Reading and Composition

## Overview

### Course Description

This course provides an opportunity for intensive reading and composition in French. Emphasis is placed on the use of literary and cultural materials to enhance and expand reading and writing skills. Upon completion, students should be able to demonstrate in writing an in-depth understanding of assigned readings.

**Course ID**  
S12238

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take FRE-212       |
| Take FRE-212;      |

# FVP111 - Introduction to Film and Video

## Overview

### Course Description

This course is an overview of the film making process from conceptualization to execution and examines film genres in the context of history, theory, creativity, and commerce. Topics include the history of film and video in the US, technical terminology, relationships between various job categories, and the language of film. Upon completion, students should be able to demonstrate a film vocabulary and knowledge of working conditions in the film/video production field.

**Course ID**  
S13357

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

# FVP112 - Art Department Operations I

## Overview

### Course Description

This course introduces practical fabrication skills for wood and other materials required to build both props and sets from blueprints, photographs, or sketches. Emphasis is placed on the safe use of hand and power tools, and the skills required for collaborative efforts in set and prop construction. Upon completion students should be able to demonstrate a working knowledge of the equipment and skills necessary to assist in constructing sets and props.

**Course ID**  
S13281

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

# FVP113 - Grip & Electrical I

## Overview

### Course Description

This course covers various grip/support packages used in different environments for studio and location. Topics include lighting units, hardware, stands, color media, and electrical theory with emphasis on safety. Upon completion, students should be able to execute basic grip and electrical directions given by the key grip, and/or gaffer.

**Course ID**  
S13333

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

### Billing Hours

**Billing Hours**  
3

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
|          |      |
| Contact  |      |
| Hours    | Load |
| 4        | 4    |

# FVP114 - Camera & Lighting I

## Overview

### Course Description

This course covers the basic principles of video camera and recorder operations in professional formats, crew protocol and safety, and basic lighting theory and application. Emphasis is placed on terminology, the characteristics of light, basic lighting procedures, and proper procedures of field recording with video equipment. Upon completion, students should be able to demonstrate an understanding of the basic technical terms of camera operation, video recording and lighting equipment.

**Course ID**  
S13243

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 2       | 2         |      |

### Billing Hours

**Billing Hours**  
3

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

# FVP115 - Camera & Lighting II

## Overview

### Course Description

This course offers advanced principles of video camera and recorder operations and introduces students to film formats and equipment as well as advanced lighting theory applications. Emphasis is placed on terminology, lighting for effect, and color correction. Upon completion, students should be able to demonstrate an understanding of camera terms and equipment, lighting theory and applications, and assist on studio and location shoots.

### Course ID

S13336

### Credit Hours

Credit  
Hours  
3  
Minutes  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3  
Minutes  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |
| Take FVP-114       |

Take FVP-114(S13243);

# FVP116 - Sound Operations

## Overview

### Course Description

This course provides an overview of sound theory, methods, and technologies for location and studio recording, and hands-on work in location sound gathering. Emphasis is placed on terminology, protocol, cabling, trouble-shooting, mixing skills and safety aspects associated with hands-on work in sound gathering. Upon completion, students should be able to demonstrate an understanding of sound theory and terminology and assist professionals in sound gathering in both film and audio production.

### Course ID

S16377

### Credit Hours

Credit  
Hours  
3  
Minutes  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3  
Minutes  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

# FVP117 - Make-Up & Wardrobe

## Overview

### Course Description

This course covers talent presentation for camera including period and genre make-up styles, materials and methods of fabrication. Emphasis is placed on understanding the wardrobe department, make-up application, prosthetics and special effects make-up with emphasis on safety, hygiene, durability and continuity. Upon completion, students should understand the functions of the wardrobe department and demonstrate competence in the use of various make-up applications.

**Course ID**  
S16378

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

# FVP120 - Art Dept. Operations II

## Overview

### Course Description

This course provides a more in depth coverage of the skills necessary to assist in the set construction, paint, set dressing, props and greens departments. Emphasis is placed on the skill range required for each craft including, but not limited to, plumbing, casting, wallpapering, furniture construction, upholstery, wiring and drapery. Upon completion students should be competent to assist in all fields related to the fabrication and decoration of sets and props.

**Course ID**  
S10528

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

## Simple Requisites

State prerequisite

Type  
Prerequisite



Take FVP-112

Take FVP-112(S13281);

FVP130 - Grip and Electrical II

Overview

Course Description

This course provides a more in depth coverage of grip/support packages used in studio work and on location. Topics include advanced coverage of lighting, color media, and camera dollies, rigging, and electrical distribution with emphasis on safety issues. Upon completion students should be able to execute grip and electrical directions given by the key grip, gaffer, cinematographer and/or director of photography.

Course ID

S11543

Credit Hours

Credit  
Hours  
3  
Min:

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 1         | 1     |

Billing Hours

Billing  
Hours  
3  
Min:

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 4        | 4    |

Simple Requisites

State prerequisite

Type  
Prerequisite

Take FVP-113

# FVP212 - Production Techniques I

## Overview

### Course Description

This course provides experience working in a variety of crew positions with both student and professional productions and covers advanced film production concepts. Emphasis is placed on successful interaction with other advanced students and/or professionals as well as competency in advanced film production concepts. Upon completion, students should be able to demonstrate professional skills needed to pursue careers in the film and video industry.

**Course ID**  
S20850

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 12       | 12   |

# FVP213 - Production Techniques II

## Overview

### Course Description

This course provides experience working in a variety of crew positions with both student and professional productions and covers advanced film production concepts. Emphasis is placed on successful interaction with other advanced students and/or professionals as well as competency in advanced film production concepts. Upon completion, students should be able to demonstrate professional skills needed to pursue careers in key positions in the film and video industry.

**Course ID**  
S16382

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 12       | 12   |

## Simple Requisites

State prerequisite

Type  
Prerequisite

Take FVP-212

Take FVP-212(S16381);

FVP215 - Production Management

Overview

Course Description

This course emphasizes the activity of script breakdown in pre-production as well as the activities of the production office in both the production and post-production stages. Emphasis is placed on procedures, use of industry standard forms and software, as well as the functions and practices of the production office. Upon completion students should be able to demonstrate the people and technical skills necessary to assist above-the-line professionals in all types of film and video production.

Course ID  
S24281

Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

Simple Requisites

Local Prerequisite  
Type  
Prerequisite

Take FVP-111

Take FVP-111(S13357);

State concurrent or previous courses

Type

Corequisite

Take One: FVP-238 or FVP-240

Take FVP-238(S12706) or FVP-240;

# FVP220 - Editing I

## Overview

### Course Description

This course covers film and video editing from traditional methods to digital non-linear systems and basic film lab and transfer facility procedures. Topics include terminology, technologies, aesthetics, basic picture-only editing skills; and the editor's role augmented by hands-on experience. Upon completion, students should be able to use editing equipment and basic digitizing, logging, and picture only editing skills.

### Course ID

S20851

### Credit Hours

Credit  
Hours  
3  
Min:  
3

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

# FVP221 - Editing II

## Overview

### Course Description

This course covers editing in the digital environment, starting from the camera negative through the transfer, the non-linear digital edit and going back to negative matching. Topics include terminology, technologies, aesthetics, advanced sound and picture editing skills, and the editor's role augmented by hands-on experience..

**Course ID**  
S11027

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type Prerequisite     |
| Take FVP-220          |
| Take FVP-220(S11078); |

# FVP223 - Postproduction Sound Design

## Overview

### Course Description

This course covers audio postproduction recording, mixing, and editing techniques, technologies, and aesthetics for the development of a compelling soundtrack for film and video media. Topics include using library effects, recording sound, effects and Foley to reinforce images and the story, preparing and mixing sound tracks for media productions. Upon completion students should be able to record, edit and mix sound design projects that strengthen narrative elements and perform critique of media sound design.

**Course ID**  
S22164

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |

**Take One: FVP-116 or FVP-220**  
Take FVP-116(S16377) or FVP-220(S20851);

# FVP227 - Multimedia Production

## Overview

### Course 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.

**Course ID**  
S11272

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

| Prerequisite |
|--------------|
| Type         |
| Prerequisite |

Take FVP-212

Take FVP-212(S20850);

FVP240 - Introduction to Screenwriting

Overview

Course Description

This course introduces the principles and practices of the screenwriting craft. Emphasis is placed on analysis of screenwriting and script components and the preparation and development of motion picture and television treatments and scripts. Upon completion, students should be able to critically analyze the components of both motion picture and television treatments and scripts, and prepare effective, camera-ready motion picture and television scripts.

Course ID

S23626

Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

Simple Requisites

State prerequisite

Type  
Prerequisite

Take ENG-111

Take ENG-111(S13673);

FVP250 - Production Specialties I

Overview

Course Description

This course provides education and training through contextual learning in the film production areas of art department, camera, sound, grip, electric, locations, script, and continuity. Emphasis is placed on successful professional level interaction with other students and industry and professionals through pre-production and initial production of an actual film/video project. Upon completion, students should demonstrate an understanding of the film/video pre-production and initial production process, and the relationship among the departments in these areas.

Course ID  
S11311

Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 6       | 6        |      |

Simple Requisites

Prerequisite



Type

Prerequisite

Take FVP-111 FVP-114

Take FVP-111(S13357) FVP-114(S13243);

# FVP251 - Production Specialities II

## Overview

### Course Description

This course provides education and training through contextual learning in the film production area of concluding photography and post-production areas of sound and picture editing. Emphasis is placed on successful professional level interaction with other students and industry professionals through concluding production and post-production of an actual film/video project. Upon completion, student should demonstrate an understanding of film/video production from concluding photography to the post-production areas of sound and picture editing.

Course ID  
S11406

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 6       | 6        |      |

# GEL111 - Geology

## Overview

### Course 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.

Course ID  
S24027

### Credit Hours

Credit  
Hours  
Min:  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# GEL113 - Historical Geology

## Overview

### Course Description

This course covers the geological history of the earth and its life forms. Emphasis is placed on the study of rock strata, fossil groups, and geological time. Upon completion, students should be able to identify major fossil groups and associated rock strata and approximate ages of geological formations.

Course ID  
S20058

### Credit Hours

Credit  
Hours  
Min:  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

## Simple Requisites

### Local English Prerequisite

Type  
Prerequisite

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025

Take 1 group; # Take DRE-098(S23643); # Take

ENG-002; From rule RMINP2; # Take  
BSP-4002(S25167); From rule BSPMINP2; # Take  
RED-090; # Take ENG-095; # Take ENG-011; #  
Take ENG-111(S26393); # Take ENG-025;

**State prerequisite**

**Type**

**Prerequisite**

**Take One: GEL-111 or GEL-120**  
Take GEL-111(S12347) or GEL-120;

# GEL120 - Physical Geology

## Overview

### Course Description

This course provides a study of the structure and composition of the earth's crust. Emphasis is placed on weathering, erosional and depositional processes, mountain building forces, rocks and minerals, and structural changes. Upon completion, students should be able to explain the structure, composition, and formation of the earth's crust.

### Course ID

S10883

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 3       | 3         |      |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

# GEL230 - Environmental Geology

## Overview

### Course Description

This course provides insights into geologic forces that cause environmental changes influencing man's activities. Emphasis is placed on natural hazards and disasters caused by geologic forces. Upon completion, students should be able to relate major hazards and disasters to the geologic forces responsible for their occurrence.

**Course ID**  
S20238

### Credit Hours

**Credit Hour**  
**Min:**  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**Min:**  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Simple Requisites

**Local English Prerequisite**

**Type**  
**Prerequisite**

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2),

**RED-090, ENG-095, ENG-011, ENG-111 or ENG-025**

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

### State prerequisite

**Type**  
**Prerequisite**

**Take One: GEL-111, GEL-120, or PHS-130**

Take GEL-111(S12347) GEL-120 or PHS-130;

# GER111 - Elementary German I

## Overview

### Course Description

This course introduces the fundamental elements of the German 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 German and demonstrate cultural awareness.

**Course ID**  
S12750

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                        |                             |
|------------------------|-----------------------------|
| <b>Name</b>            |                             |
| <b>Classroom Hours</b> | <b>Code</b><br><b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>                 |
| <b>3</b>               | <b>3</b>                    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# GER112 - Elementary German II

## Overview

### Course Description

This course is a continuation of GER 111 focusing on the fundamental elements of the German 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 German and demonstrate further cultural awareness.

**Course ID**  
S12801

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                        |                             |
|------------------------|-----------------------------|
| <b>Name</b>            |                             |
| <b>Classroom Hours</b> | <b>Code</b><br><b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>                 |
| <b>3</b>               | <b>3</b>                    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                                    |
|------------------------------------|
| <b>State prerequisite</b>          |
| <b>Type</b><br><b>Prerequisite</b> |
| <b>Take GER-111</b>                |

Take GER-111;

# GER141 - Culture and Civilization

## Overview

### Course Description

This course, taught in English, provides an opportunity to explore issues related to the German-speaking world. Topics include historical and current events, geography, and customs. Upon completion, students should be able to identify and discuss selected topics and cultural differences related to the German-speaking world.

**Course ID**  
S10643

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| 3       |           | 3    |

### Billing Hours

**Billing Hours**  
3

# GER161 - Cultural Immersion

## Overview

### Course Description

This course explores German culture through intensive study on campus and field experience in a host country or area. Topics include an overview of linguistic, historical, geographical, sociopolitical, economic and/or artistic concerns of the area visited. Upon completion, students should be able to exhibit first-hand knowledge of issues pertinent to the host area and demonstrate an understanding of cultural differences.

**Course ID**  
S20485

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| 2       |           | 2    |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          | Load |
| 3       |          | 3    |

## Simple Requisites

**State prerequisite**  
**Type**  
**Prerequisite**

Take GER-111

Take GER-111;

# GER181 - German Lab 1

## Overview

### Course Description

This course provides an opportunity to enhance acquisition of the fundamental elements of the German 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 German and demonstrate cultural awareness.

### Course ID

S10984

### Credit Hours

Credit  
Hours  
1  
s  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
s  
Min:  
1

### Simple Requisites

| Local Recommended Concurrent Or Previous Courses |
|--------------------------------------------------|
| Type<br>Corequisite                              |
| Take GER-111                                     |

# GER182 - German Lab 2

## Overview

### Course Description

This course provides an opportunity to enhance acquisition of the fundamental elements of the German 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 German and demonstrate cultural awareness.

### Course ID

S10956

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

### Simple Requisites

**Local Concurrent Or Previous Courses**  
**Type**  
**Corequisite**

**Take GER-112**  
Take GER-112;

**State prerequisite**  
**Type**  
**Prerequisite**

**Take GER-181**  
Take GER-181;



# GER211 - Intermediate German I

## Overview

### Course Description

This course provides a review and expansion of the essential skills of the German 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.

**Course ID**  
S12035

### Credit Hours

**Credit Hours**  
3

| Name | Classroom Hours | Code  | Contact Hours | Load |
|------|-----------------|-------|---------------|------|
|      |                 | CLASS |               |      |
|      |                 |       | 3             | 3    |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |
| Take GER-112       |
| Take GER-112;      |

# GER212 - Intermediate German II

## Overview

### Course Description

This course provides a continuation of GER 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.

**Course ID**  
S11969

### Credit Hours

**Credit Hours**  
3

| Name | Classroom Hours | Code  | Contact Hours | Load |
|------|-----------------|-------|---------------|------|
|      |                 | CLASS |               |      |
|      |                 |       | 3             | 3    |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |
| Take GER-211       |
| Take GER-211;      |

# GER221 - German Conversation

## Overview

### Course Description

This course provides an opportunity for intensive communication in spoken German. Emphasis is placed on vocabulary acquisition and interactive communication through the discussion of media materials and authentic texts. Upon completion, students should be able to discuss selected topics, express ideas and opinions clearly, and engage in formal and informal conversations.

**Course ID**  
S10753

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take GER-212       |
| Take GER-212;      |

# GER231 - Reading and Composition

## Overview

### Course Description

This course provides an opportunity for intensive reading and composition in German. Emphasis is placed on the use of literary and cultural materials to enhance and expand reading and writing skills. Upon completion, students should be able to demonstrate in writing an in-depth understanding of assigned readings.

**Course ID**  
S13325

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take GER-212       |
| Take GER-212;      |

# GIS111 - Introduction to GIS

## Overview

### Course Description

This course introduces the hardware and software components of a Geographic Information System and reviews GIS applications. Topics include data structures and basic functions, methods of data capture and sources of data, and the nature and characteristics of spatial data and objects. Upon completion, students should be able to identify GIS hardware components, typical operations, products/applications, and differences between database models and between raster and vector systems.

### Course ID

S12471

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 2         | 2    |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          | Load |
| Hours   | 2        | 2    |

# GRD110 - Typography I

## Overview

### Course 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.

### Course ID

S25910

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 2         | 2    |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          | Load |
| Hours   | 3        | 3    |

# GRD131 - Illustration I

## Overview

### Course 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.

**Course ID**  
S26198

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

### Simple Requisites

| Local Requistes                        |
|----------------------------------------|
| Type                                   |
| Prerequisite                           |
| Take GRD-151;<br>Take GRD-151(S26203); |

### State prerequisite

Type  
Prerequisite

Take One Set: Set 1: GRD-121 Set 2: ART-131  
Set 3: GRD-141 Set 4: GRD-151

Take 1 group; # Take GRD-121(S26197); # Take  
ART-131; # Take GRD-141(S26201); # Take  
GRD-151(S26203);

# GRD132 - Illustration II

## Overview

### Course 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.

Course ID  
S26199

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 4       |          | 4    |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type Prerequisite     |
| Take GRD-131          |
| Take GRD-131(S26198); |

# GRD142 - Graphic Design II

## Overview

### Course 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.

Course ID  
S26202

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 4       |          | 4    |

### Simple Requisites

|                                       |
|---------------------------------------|
| Local Prerequisite                    |
| Type Prerequisite                     |
| Take GRD-110 GRD-151;                 |
| Take GRD-110(S25910) GRD-151(S26203); |
| State prerequisite                    |

Type

Prerequisite

Take ART-121 or GRD-141

Take ART-121(S23014) or GRD-141(S26201);

# GRD151 - Computer Design Basics

## Overview

### Course 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.

Course ID  
S26203

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 4       |          | 4    |

# GRD152 - Computer Design Technology

## Overview

### Course 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.

Course ID  
S26204

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 4       |          | 4    |

## Simple Requisites

Local Prerequisite

Type

Prerequisite

Take GRD-151

Take GRD-151(S26203);

# GRD241 - Graphic Design III

## Overview

### Course 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.

Course ID  
S26210

### Credit Hours

Credit  
Hours  
4  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 2       | 2         |       |

### Billing Hours

Billing  
Hours  
4  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 4       | 4        |      |

### Simple Requisites

|                                        |
|----------------------------------------|
| State prerequisite                     |
| Type<br>Prerequisite                   |
| Take GRD-142;<br>Take GRD-142(S26202); |

# GRD271 - Multimedia and Video I

## Overview

### Course Description

This course introduces the fundamentals of multimedia and video production. Emphasis is placed on topics such as storyboarding, scripting, animation, motion graphics, digital audio/video, and copyright issues. Upon completion, students should be able to produce multimedia and video solutions.

Course ID  
S26601

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 1       | 1         |       |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 4       | 4        |      |

# GRD275 - Animation I

## Overview

### Course Description

This course introduces the concepts and development of animation. Emphasis is placed on theory, storyboarding, narration, sequence implementation, appropriate software usage, and audio visual manipulation. Upon completion, students should be able to successfully complete computer-generated animated sequences.

### Course ID

S26445

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 4        | 4    |

### Simple Requisites

|                                  |
|----------------------------------|
| State prerequisite               |
| Type<br>Prerequisite             |
| Take One: GRD-151 or GRA-151     |
| Take GRD-151(S26203) or GRA-151; |

# GRD280 - Portfolio Design

## Overview

### Course 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.

### Course ID

S26216

### Credit Hours

Credit  
Hours  
4  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
4  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 4        | 4    |

### Simple Requisites

|                                       |
|---------------------------------------|
| Local Prerequisite                    |
| Type<br>Prerequisite                  |
| Take GRD-142 and GRD-152              |
| Take GRD-142(S26202) GRD-152(S26204); |



State prerequisite

Type

Prerequisite

Take GRD-142;  
Take GRD-142(S26202);

## GRO120 - Intro to Gerontology

### Overview

#### Course Description

This course introduces the psychological, social, and biological aspects of aging. Emphasis is placed on common mental, social, and physical changes that occur during the aging process. Upon completion, students should be able to recognize the aging process and its psychological, social, and biological aspects.

Course ID  
S26335

#### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

#### Billing Hours

Billing  
Hour  
s  
Min:  
3

## HBI110 - Issues and Trends in Healthcare Business Informatics

### Overview

#### Course Description

This course is a survey of current and emerging technology applications and data standards in the healthcare industry. Topics include the history, implementation, use, management, and impact of information technology in healthcare settings. Upon completion, students should have an understanding of the current trends and issues in healthcare informatics.

Course ID  
S22762

#### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

#### Billing Hours

Billing  
Hour  
s  
Min:  
3

# HEA110 - Personal Health/Wellness

## Overview

### Course 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.

**Course ID**  
S10185

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

**Billing Hours**  
3

# HEA112 - First Aid & CPR

## Overview

### Course 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.

**Course ID**  
S10211

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 1               | Load | 1     |

### Billing Hours

**Billing Hours**  
2

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 2              | Load | 2   |

# HEA120 - Community Health

## Overview

### Course 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.

**Course ID**  
S12251

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

**Billing Hours**  
3

# HEA130 - Health-Adult Sexuality

## Overview

### Course Description

This course provides information about health issues related to adult human sexuality. Topics include basic reproductive anatomy, contraceptive methods, STDs, and related information. Upon completion, students should be able to identify various related community agencies and available resources relating to sexual issues.

**Course ID**  
S10832

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

**Billing Hours**  
3

# HET110 - Diesel Engines

## Overview

### Course Description

This course introduces theory, design, terminology, and operating adjustments for diesel engines. Emphasis is laced on safety, theory of operation, inspection, measuring, and rebuilding diesel engines according to factory specifications. Upon completion, students should be able to measure, diagnose problems, and repair diesel engines.

**Course ID**  
S12126

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**6**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**6**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 9       |          | 9    |

### Simple Requisites

| Prerequisite          |
|-----------------------|
| Type                  |
| Prerequisite          |
|                       |
| Take TRN-110          |
| Take TRN-110(S23455); |

Recommended concurrent or previous courses

Type  
Corequisite

|               |
|---------------|
| Take MRN-121  |
| Take MRN-121; |

# HET114 - Power Trains

## Overview

### Course Description

This course introduces power transmission devices. Topics include function and operation of gears, chains, clutches, planetary gears, drive lines, differentials, and transmissions. Upon completion, students should be able to identify, research specifications, repair, and adjust power train components.

**Course ID**  
S12114

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 6       |          | 6    |

# HET115 - Electronic Engines

## Overview

### Course Description

This course introduces the principles of electronically controlled diesel engines. Emphasis is placed on testing and adjusting diesel engines in accordance with manufacturers' specifications. Upon completion, students should be able to diagnose, test, and calibrate electronically controlled diesel engines.

**Course ID**  
S12235

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| Prerequisite          |
|-----------------------|
| Type                  |
| Prerequisite          |
| Take TRN-120          |
| Take TRN-120(S23456); |

# HET125 - Preventive Maintenance

## Overview

### Course Description

This course introduces preventive maintenance practices used on medium and heavy duty vehicles and rolling assemblies. Topics include preventive maintenance schedules, services, DOT rules and regulations, and road ability. Upon completion, students should be able to set up and follow a preventive maintenance schedule as directed by manufacturers.

**Course ID**  
S10840

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# HET128 - Medium/Heavy Duty Tune Up

## Overview

### Course Description

This course introduces tune-up and troubleshooting according to manufacturers' specifications. Topics include troubleshooting engine systems, tune-up procedures, and use and care of special test tools and equipment. Upon completion, students should be able to troubleshoot, diagnose, and repair engines and components using appropriate diagnostic equipment.

**Course ID**  
S10823

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| Load            |            |
| 1               | 1          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| Load           |          |
| 2              | 2        |

# HET134 - Diesel Fuel and Power System

## Overview

### Course Description

This course introduces the principles of fuel injection and other power systems used in the heavy equipment industry including newer and cleaner technology. Emphasis is placed on test equipment, component functions, safety, and theories of older conventional and newer and cleaner Tier III and Tier IV fuel systems. Upon completion, students should be able to diagnose and service fuel systems and explain proper safety procedures on alternative fuel systems used in heavy equipment industry.

**Course ID**  
S23319

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| Load            |            |
| 2               | 2          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| Load           |          |
| 3              | 3        |

# HET229 - Brakes and Steering

## Overview

### Course Description

This course introduces the theory and principles of braking and steering in medium and heavy duty vehicles. Topics include wheel and tire problems, frame members, bearings, fifth wheel, coupling systems, and braking systems. Upon completion, students should be able to diagnose, adjust, and repair steering and braking problems on medium and heavy duty vehicles.

**Course ID**  
S10429

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

# HET230 - Air Brakes

## Overview

### Course Description

This course introduces the operation and design of air braking systems used on trucks. Topics include safety, governors, compressors, and supporting systems. Upon completion, students should be able to diagnose, disassemble, inspect, repair, and reassemble air brake systems.

**Course ID**  
S11522

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

# HFS110 - Exercise Science

## Overview

### Course Description

This course is a survey of scientific principles, methodologies, and research as applied to exercise and physical adaptations to exercise. Topics include the basic elements of kinesiology, biomechanics, and motor learning. Upon completion, students should be able to identify and describe physiological responses and adaptations to exercise.

**Course ID**  
S24773

### Credit Hours

**Credit Hours**  
4

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 4       |           | 4    |

### Billing Hours

**Billing Hours**  
4

# HFS111 - Fitness & Exercise Testing I

## Overview

### Course Description

This course introduces the student to graded exercise testing. Topics include various exercise testing protocols with methods for prescribing exercise programs based on exercise tolerance tests and the use of various equipment and protocols. Upon completion, students should be able to conduct specific exercise tests and the use of various equipment.

**Course ID**  
S24774

### Credit Hours

**Credit Hours**  
4

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
|         |           |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

**Billing Hours**  
4

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
|          |      |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |



# HFS116 - Prevention & Care of Exercise Injuries

## Overview

### Course Description

This course provides information about the care and prevention of exercise injuries. Topics include proper procedures, prevention techniques, and on-site care of injuries. Upon completion, students should be able to demonstrate the knowledge and skills necessary to prevent and care for exercise related injuries.

**Course ID**  
S24776

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

| Local Corequisite                        |
|------------------------------------------|
| Type                                     |
| Corequisite                              |
| Take BIO-111 or BIO-168                  |
| Take BIO-111(S24020) or BIO-168(S11555); |

# HFS118 - Fitness Facility Management

## Overview

### Course Description

This course provides information about the management and operation of health and fitness facilities and programs. Topics include human resources, sales and marketing, member retention, financial management, facility design and maintenance, and risk management. Upon completion, students should be able to demonstrate the knowledge and skills necessary to effectively manage a fitness facility.

**Course ID**  
S24777

### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 4             | 4               |       |

### Billing Hours

**Billing Hours**  
4

### Simple Requisites

| Local Corequisite       |
|-------------------------|
| Type                    |
| Corequisite             |
| Take BIO-168 or BIO-169 |

Take BIO-168(S11555) or BIO-169(S11629);

# HFS120 - Group Exercise Instruction

## Overview

### Course Description

This course introduces the concepts and guidelines of instructing exercise classes. Topics include program designs, working with special populations, and principles of teaching and monitoring physical activity. Upon completion, students should be able to demonstrate basic skills in instructing an exercise class and monitoring workout intensity.

Course ID  
S24778

### Credit Hours

Credit  
Hours  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact Hours  | Load     |
| 2              | 2        |

### Simple Requisites

| State prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |
|                    |              |
| Take HFS-110       |              |
| Take HFS-110;      |              |

# HFS210 - Personal Training

## Overview

### Course Description

This course introduces the student to the aspects of personal (one-on-one) training. Topics include training systems, marketing, and program development. Upon completion, students should be able to demonstrate personal training techniques and competencies of same.

**Course ID**  
**S24779**

### Credit Hours

**Credit Hours**  
**3**

| Name          | Classroom | Code  |
|---------------|-----------|-------|
| Hours         |           | CLASS |
| Contact Hours | Load      |       |
| 2             | 2         |       |

### Billing Hours

**Billing Hours**  
**3**

| Name          | Lab/Shop | Code |
|---------------|----------|------|
| Hours         |          | LAB  |
| Contact Hours | Load     |      |
| 2             | 2        |      |

## Simple Requisites

### Local Corequisite

**Type**  
**Corequisite**

**Take BIO-168 or BIO-169**

Take BIO-168(S11555) or BIO-169(S11629);

### Local Prerequisite

**Type**  
**Prerequisite**

**Take PED-117**

Take PED-117;

**Local Requisite**  
**Type**  
**Corequisite**

**Take PED-118**

Take PED-118;

**State prerequisite**  
**Type**  
**Prerequisite**

**Take All: HFS-110 and HFS-111**

Take HFS-110 HFS-111;

# HFS212 - Exercise Programming

## Overview

### Course Description

This course provides information about organizing, scheduling, and implementation of physical fitness programs. Topics include programming for various age groups, competitive activities and special events, and evaluating programs. Upon completion, students should be able to organize and implement exercise activities in a competent manner.

**Course ID**  
S24781

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Simple Requisites

**Local Prerequisite**  
**Type**  
**Prerequisite**  

**Take HFS-210**  
Take HFS-210;

**State prerequisite**  
**Type**  
**Prerequisite**  

**Take HFS-110**  
Take HFS-110;

# HFS218 - Lifestyle Change & Wellness

## Overview

### Course Description

This course introduces health risk appraisals and their application to lifestyle changes. Topics include nutrition, weight control, stress management, and the principles of exercise. Upon completion, students should be able to conduct health risk appraisals and apply behavior modification techniques in a fitness setting.

**Course ID**  
S24783

### Credit Hours

**Credit Hours**  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

| Local Prerequisite |
|--------------------|
| Type Prerequisite  |
| Take HFS-210       |
| Take HFS-210;      |

# HIS111 - World Civilizations I

## Overview

### Course 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.

**Course ID**  
S10799

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# HIS112 - World Civilizations II

## Overview

### Course 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.

**Course ID**  
S10844

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# HIS115 - Introduction to Global History

## Overview

### Course Description

This course introduces the study of global history. Emphasis is placed on topics such as colonialism, industrialism, and nationalism. Upon completion, students should be able to analyze significant global historical issues.

**Course ID**  
S10822

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# HIS116 - Current World Problems

## Overview

### Course Description

This course covers current world events from an historical perspective. Topics include regional problems as well as international concerns. Upon completion, students should be able to analyze significant current world problems from an historical perspective.

Course ID  
S10826

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3

# HIS121 - Western Civilization I

## Overview

### Course Description

This course introduces western civilization from pre-history to the early modern era. Topics include ancient Greece, Rome, and Christian institutions of the Middle Ages and the emergence of national monarchies in western Europe. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early western civilization.

Course ID  
S13000

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3

# HIS122 - Western Civilization II

## Overview

### Course Description

This course introduces western civilization from the early modern era to the present. Topics include the religious wars, the Industrial Revolution, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern western civilization.

**Course ID**  
S13096

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# HIS131 - American History I

## Overview

### Course 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.

**Course ID**  
S10372

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3



# HIS132 - American History II

## Overview

### Course 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.

Course ID  
S10386

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 3       | 3         |      |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# HIS141 - Genealogy & Local History

## Overview

### Course Description

This course explores the role of the local or family historian. Emphasis is placed on historical or genealogical research techniques including a survey of local, state, and national archival resources. Upon completion, students should be able to conduct genealogical research and do a major research project on local or family history.

Course ID  
S11285

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 3       | 3         |      |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# HIS145 - The Second World War

## Overview

### Course Description

This course covers the period of the Second World War from 1919 to 1945. Topics include the Treaty of Versailles, the rise of totalitarian regimes, the origins of the war, the major military campaigns in Europe and the Pacific, and the aftermath. Upon completion, students should be able to analyze significant political, military, socioeconomic, and cultural developments that influenced the Second World War.

**Course ID**  
S21384

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 3                      | 3            |

### Billing Hours

**Billing Hours**  
3

# HIS151 - Hispanic Civilization

## Overview

### Course Description

This course surveys the cultural history of Spain and its impact on the New World. Topics include Spanish and Latin American culture, literature, religion, and the arts. Upon completion, students should be able to analyze the cultural history of Spain and Latin America.

**Course ID**  
S11246

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 3                      | 3            |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                                          |
|------------------------------------------|
| <b>Prerequisite</b>                      |
| <b>Type</b>                              |
| <b>Prerequisite</b>                      |
| Take ENG-095 RED-090 or ENG-111;         |
| Take ENG-095 RED-090 or ENG-111(S13673); |

# HIS162 - Women and History

## Overview

### Course Description

This course surveys the experience of women in historical perspective. Topics include the experiences and contributions of women in culture, politics, economics, science, and religion. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural contributions of women in history.

Course ID  
S12886

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
3

# HIS163 - The World Since 1945

## Overview

### Course Description

This course surveys world developments since the end of World War II. Topics include the Cold War, nationalism, colonialism, the Third World, the arms race, and global capitalism and regionalism. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the world since 1945.

Course ID  
S12914

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
3

# HIS165 - Twentieth-Century World

## Overview

### Course Description

This course includes the major developments, issues, and ideas in twentieth-century world history. Emphasis is placed on contrasting political systems, the impact of science and technology, and the philosophical temperament of twentieth-century people. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the twentieth century.

**Course ID**  
S12963

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# HIS167 - The Vietnam War

## Overview

### Course Description

This course covers the American political and military involvement in Vietnam from 1944 to 1975. Topics include the French colonial policy, Vietnamese nationalism, the war with France, American involvement, and resolution of the conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments that influenced the Vietnam War.

**Course ID**  
S12926

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                                          |
|------------------------------------------|
| <b>Prerequisite</b>                      |
| <b>Type</b>                              |
| <b>Prerequisite</b>                      |
| Take ENG-095 RED-090 or ENG-111;         |
| Take ENG-095 RED-090 or ENG-111(S13673); |

# HIS211 - Ancient History

## Overview

### Course Description

This course traces the development of the cultural, intellectual, and political foundations of western civilization. Topics include the civilizations of the Near East, the classical Greek and Hellenistic eras, the Roman world, Judaism, and Christianity. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the ancient world.

### Course ID

S10466

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# HIS212 - Medieval History

## Overview

### Course Description

This course traces the cultural, political, economic, social, religious, and intellectual history of Europe during the Middle Ages. Topics include the decline of the Roman Empire, the Frankish Kingdoms, the medieval church, feudalism, the rise of national monarchies, urbanization, and the rise of universities. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in medieval Europe.

### Course ID

S10435

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# HIS216 - Twentieth-Century Europe

## Overview

### Course Description

This course provides an in-depth survey of twentieth-century Europe. Topics include World Wars I and II, and political, social, and cultural movements of the twentieth century. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in twentieth-century Europe.

### Course ID

S10431

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing Hours  
3

# HIS221 - African-American History

## Overview

### Course Description

This course covers African-American history from the Colonial period to the present. Topics include African origins, the slave trade, the Civil War, Reconstruction, the Jim Crow era, the civil rights movement, and contributions of African Americans. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the history of African Americans.

### Course ID

S11507

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing Hours  
3

# HIS222 - African-American History I

## Overview

### Course Description

This course covers African American history through the Civil War period. Topics include African origins, the nature of slavery, African-American participation in the American Revolution, abolitionism, and the emergence of a distinct African-American culture. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early African-American history.

**Course ID**  
S11465

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# HIS223 - African-American History II

## Overview

### Course Description

This course covers African American history from the Civil War to the present. Topics include Reconstruction, the Jim Crow era, urbanization, the Harlem Renaissance, the Civil Rights movement, and the philosophies of major African-American leaders. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in African-American history since the Civil War.

**Course ID**  
S11488

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# HIS226 - The Civil War

## Overview

### Course Description

This course examines the social, political, economic, and ideological forces that led to the Civil War and Reconstruction. Topics include regional conflicts and sectionalism, dissolution of the Union, military campaigns, and the War's socioeconomic impact, aftermath, and consequences. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the United States during the era of the Civil War.

Course ID  
S11444

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                                          |
|------------------------------------------|
| Prerequisite                             |
| Type                                     |
| Prerequisite                             |
| Take ENG-095 RED-090 or ENG-111;         |
| Take ENG-095 RED-090 or ENG-111(S13673); |

# HIS227 - Native American History

## Overview

### Course Description

This course surveys the history and cultures of Native Americans from pre-history to the present. Topics include Native American civilizations, relations with Europeans, and the continuing evolution of Native American cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments among Native Americans.

Course ID  
S11493

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:



# HIS228 - History of the South

## Overview

### Course Description

This course covers the origin and development of the South as a distinct region of the United States. Emphasis is placed on Southern identity and its basis in cultural, social, economic, and political developments during the 19th and 20th centuries. Upon completion, students should be able to identify and analyze the major cultural, social, economic, and political developments in the South.

**Course ID**  
S11422

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>3</b>         | <b>3</b>     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# HIS229 - History of the Old South

## Overview

### Course Description

This course is a study of the development of the South from European settlement through the Civil War. Topics include the multi-ethnic character of colonization, the plantation economy, relations between social classes, the nature of slavery, and issues leading to the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the antebellum South.

**Course ID**  
S11514

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>3</b>         | <b>3</b>     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# HMT110 - Introduction to Healthcare Management

## Overview

### Course 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.

**Course ID**  
S20232

### Credit Hours

**Credit Hours**  
**3**

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| <b>3</b>               | <b>3</b>     |

### Billing Hours

**Billing Hours**  
**3**

# HOR112 - Landscape Design I

## Overview

### Course 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.

**Course ID**  
S23383

### Credit Hours

**Credit Hours**  
**3**

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| <b>2</b>               | <b>2</b>     |

### Billing Hours

**Billing Hours**  
**3**

|                       |             |
|-----------------------|-------------|
| <b>Name</b>           |             |
| <b>Lab/Shop Hours</b> | <b>Code</b> |
|                       | <b>LAB</b>  |
| <b>Contact Hours</b>  | <b>Load</b> |
| <b>3</b>              | <b>3</b>    |

# HOR114 - Landscape Construction

## Overview

### Course Description

This course introduces the design and fabrication of landscape structures/features. Emphasis is placed on safety, tool identification and use, material selection, construction techniques, and fabrication. Upon completion, students should be able to design and construct common landscape structures/features.

Course ID  
S13181

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# HOR118 - Equipment Operation and Maintenance

## Overview

### Course Description

This course covers the proper operation and maintenance of selected equipment used in horticulture. Emphasis is placed on the maintenance, minor repairs, safety devices, and actual operation of selected equipment. Upon completion, students should be able to design a maintenance schedule, service equipment, and demonstrate safe operation of selected equipment.

Course ID  
S13189

### Credit Hours

Credit  
t  
Hour  
s  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

# HOR124 - Nursery Operations

## Overview

### Course Description

This course covers nursery site and crop selection, cultural practices, and production and marketing methods. Topics include site considerations, water availability, equipment, irrigation, fertilization, containers, media, and pest control. Upon completion, students should be able to design and implement a nursery operation and grow and harvest nursery crops.

**Course ID**  
S13778

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# HOR134 - Greenhouse Operations

## Overview

### Course 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.

**Course ID**  
S11499

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# HOR160 - Plant Materials I

## Overview

### Course Description

This course covers identification, culture, characteristics, and use of plants in a sustainable landscape. Emphasis is placed on nomenclature, identification, growth requirements, cultural requirements, soil preferences, and landscape applications. Upon completion, students should be able to demonstrate knowledge of the proper selection and utilization of plant materials, including natives and invasive plants.

**Course ID**  
S23284

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# HOR161 - Plant Materials II

## Overview

### Course Description

This course provides a supplementary opportunity to cover identification, culture, characteristics, and use of plants in a sustainable landscape, giving students a broader knowledge of available landscape plants for utilization in landscapes and plant production. Emphasis is placed on nomenclature, identification, growth requirements, cultural requirements, soil preferences, landscape applications and expansion of the plant palette. Upon completion, students should be able to demonstrate knowledge of the proper selection and utilization of plant materials, including natives and invasive plants.

**Course ID**  
S24316

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# HOR162 - Applied Plant Science

## Overview

### Course Description

This course introduces the basic concepts of botany as they apply to horticulture. Topics include nomenclature, physiology, morphology, and anatomy as they apply to plant culture. Upon completion, students should be able to apply the basic principles of botany to horticulture.

**Course ID**  
S13621

### Credit Hours

**Credit Hour**  
s  
Min:  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
s  
Min:  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# HOR164 - Horticultural Pest Management

## Overview

### Course Description

This course covers the identification and management of plant pests including insects, diseases, and weeds. Topics include pest identification and beneficial organisms, pesticide application safety and use of least toxic methods of management. Upon completion, students should be able to manage common landscape pests using least toxic methods of control and be prepared to sit for North Carolina Commercial Pesticide Ground Applicators license.

**Course ID**  
S23384

### Credit Hours

**Credit Hour**  
s  
Min:  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
s  
Min:  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# HOR166 - Soils and Fertilizers

## Overview

### Course Description

This course covers the physical and chemical properties of soils and soil fertility and management. Topics include soil formation; classification; physical, chemical, and biological properties (including microorganisms); testing; and fertilizer application. Upon completion, students should be able to analyze, evaluate, and properly amend soils/media according to sustainable practices.

**Course ID**  
S23385

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

# HOR168 - Plant Propagation

## Overview

### Course 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.

**Course ID**  
S13635

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

# HOR213 - Landscape Design II

## Overview

### Course Description

This course covers residential and commercial landscape design, cost analysis, and installation. Emphasis is placed on job cost estimates, installation of the landscape design, and maintenance techniques. Upon completion, students should be able to read landscape design blueprints, develop cost estimates, and implement the design.

Course ID  
S11339

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take HOR-112          |
| Take HOR-112(S13209); |

# HRM110 - Introduction to Hospitality and Tourism

## Overview

### Course 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.

Course ID  
S22898

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:



# HRM115 - Housekeeping

## Overview

### Course Description

This course covers the scope, responsibilities, communications, terminology, materials, and concerns specific to hotel housekeeping. Topics include management and supervision of housekeeping staff , proper cleaning and sanitation of rooms and public areas, budgeting, purchasing, security, and inventory control. Upon completion, students should be able to understand and apply the principles of organization and management of a housekeeping department.

**Course ID**  
S22899

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

| Recommended concurrent or previous courses |             |
|--------------------------------------------|-------------|
| Type                                       | Corequisite |
| Take HRM-115A                              |             |

# HRM115A - Housekeeping Lab

## Overview

### Course Description

This course provides a laboratory experience for enhancing student skills in the responsibilities, communications, terminology, materials, and concerns specific to hotel housekeeping. Emphasis is placed on practical experiences of management/ supervision of housekeeping staff in the proper cleaning/sanitation of rooms/public areas, budgeting, purchasing, security, and inventory control. Upon completion, students should be able to demonstrate mastery of housekeeping skills. This course is a laboratory to accompany HRM 115. Emphasis is placed on the development of skills for the performance of housekeeping tasks.

**Course ID**  
S22900

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

| State concurrent or previous courses |             |
|--------------------------------------|-------------|
| Type                                 | Corequisite |
|                                      |             |

Take HRM-115

Take HRM-115(S10963);

# HRM120 - Front Office Procedures

## Overview

### Course Description

This course introduces a systematic approach to lodging front office procedures. Topics include reservations, registration, guest satisfaction, occupancy and revenue management, security, interdepartmental communications, and related guest services. Upon completion, students should be able to demonstrate a basic understanding of current front office operating systems, including efficient and courteous guest services.

Course ID  
S22901

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 3         | 3    |

### Billing Hours

Billing  
Hours  
3

# HRM120A - Front Office Procedures Lab

## Overview

### Course Description

This course provides a laboratory experience for enhancing student skills in lodging front office procedures. Emphasis is placed on practical computer applications of reservations, registration, guest satisfaction, occupancy and revenue management, security, interdepartmental communications, and related guest services. Upon completion, students should be able to demonstrate a basic proficiency in computer-based, front office applications.

Course ID  
S22902

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          | Load |
| Hours   | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type                                 |
| Corequisite                          |

Take HRM-120

Take HRM-120(S12499);

# HRM124 - Guest Service Management

## Overview

### Course Description

This course is designed to provide an introduction to the culture of dining room service management. Emphasis is placed on the dignity and psychology of service work, dining room organization/ infrastructure, service delivery, and modeling management roles in a dining room environment. Upon completion, students should be able to demonstrate an understanding of the guest/server dynamic and apply these principles in a dining room setting.

Course ID  
S22904

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 2       | 2         |       |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

# HRM130 - Bed and Breakfast Management

## Overview

### Course Description

This course provides an overview of the management of bed and breakfast facilities. Emphasis is placed on lifestyle commitment, property needs, computer operations, business and marketing plans, customer service and facility management. Upon completion, students should be able to describe and apply the principles of management unique to the bed and breakfast industry.

Course ID  
S22906

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
3

# HRM135 - Facilities Management

## Overview

### Course Description

This course introduces the basic elements of planning and designing hospitality facilities including environmental impacts, maintenance, and upkeep. Topics include equipment and plant preventive maintenance, engineering, interior design, space utilization, remodeling and expansion, and traffic and work flow patterns. Upon completion, students should be able to demonstrate an understanding of the planning, design, national certification, and maintenance of hospitality physical plants and equipment.

**Course ID**  
S22907

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>3</b>         | <b>3</b>     |

### Billing Hours

**Billing**  
**Hour**  
**s**  
**Min:**  
**3**

# HRM140 - Legal Issues-Hospitality

## Overview

### Course 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.

**Course ID**  
S22908

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>3</b>         | <b>3</b>     |

### Billing Hours

**Billing**  
**Hour**  
**s**  
**Min:**  
**3**

# HRM150 - Training for Hospitality

## Overview

### Course 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.

**Course ID**  
S22909

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# HRM160 - Information Systems for Hospitality

## Overview

### Course Description

This course covers current technology and technological issues for the future as they apply to the hospitality industry. Emphasis is placed on the effect of technology on e-commerce, human resources, menu management, and hospitality management systems. Upon completion, students will be able to demonstrate competence in utilizing contemporary information application systems in a hospitality setting.

**Course ID**  
S22821

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# HRM180 - The Business of Tourism

## Overview

### Course Description

This course covers concepts related to tourism through a global business perspective, examining management, marketing and finance issues related to the tourism industry. Topics include marketing to the traveling public, delivering quality tourism services, the economic, environmental and political impacts of tourism and capturing technology's competitive advantages in the tourism industry. Upon completion, students should be able to demonstrate an understanding of an integrated model of tourism that addresses consumer behavior, service quality and the future of tourism.

**Course ID**  
S25084

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |

Take HRM-110  
Take HRM-110(S22898);

# HRM210 - Meetings and Event Planning

## Overview

### Course 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.

**Course ID**  
S22910

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

**Billing Hours**  
3

# HRM215 - Restaurant Management

## Overview

### Course Description

This course provides an overview of the responsibilities and activities encountered in managing a food and beverage operation. Topics include planning, organization, accounting, marketing, trends, and human resources from an integrated managerial viewpoint. Upon completion, students should be able to demonstrate an understanding of the operation of a restaurant.

**Course ID**  
S22911

### Credit Hours

**Credit Hour**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**3**

### Simple Requisites

|                                          |
|------------------------------------------|
| State prerequisite                       |
| Type Prerequisite                        |
| Take One: CUL-135 or HRM-124             |
| Take CUL-135(S22842) or HRM-124(S22904); |

# HRM215A - Restaurant Management Lab

## Overview

### Course Description

This course provides a laboratory experience for enhancing student skills in the responsibilities and activities encountered in managing a food and beverage operation. Emphasis is placed on practical applications of planning, organization, accounting, marketing, trends, and human resources from an integrated managerial viewpoint. Upon completion, students should be able to demonstrate a basic proficiency in restaurant management operations which may include overseeing and execution of production and service. This course is a laboratory to accompany HRM 215. Emphasis is placed on practical applications of restaurant management principles.

**Course ID**  
S22912

### Credit Hours

**Credit Hour**  
**1**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Billing Hours

**Billing Hour**  
**1**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
|--------------------|

**Type**  
**Prerequisite**

**Take One: CUL-135 or HRM-124**  
Take CUL-135(S22842) or HRM-124(S22904);

**State concurrent or previous courses**  
**Type**  
**Corequisite**

**Take HRM-215**  
Take HRM-215(S10179);

# HRM220 - Cost Control-Food and Beverage

## Overview

### Course Description

This course introduces controls and accounting procedures as applied to costs in the hospitality industry. Topics include reports, cost control, planning and forecasting, control systems, financial statements, operational efficiencies, labor controls and scheduling. Upon completion, students should be able to demonstrate an understanding of food, beverage, and labor cost control systems for operational troubleshooting and problem solving.

**Course ID**  
**S22913**

### Credit Hours

**Credit Hours**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
**3**



# HRM220A - Cost Control-Food & Bev Lab

## Overview

### Course Description

This course provides a laboratory experience for enhancing student skills in controls and purchasing procedures as applied to costs in the hospitality industry. Emphasis is placed on practical applications of reports, cost control, planning and forecasting, control systems, financial statements, operational efficiencies, labor controls and scheduling. Upon completion, students should be able to demonstrate proficiency in computer-based control applications.

**Course ID**  
S22914

### Credit Hours

**Credit Hours**  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type                                 |
| Corequisite                          |
| Take HRM-220                         |

Take HRM-220(S12122);

# HRM225 - Beverage Management

## Overview

### Course Description

This course introduces the management of beverages served in hospitality operations. Topics include history and trends; service, procurement and storage; knowledge and control of wines and fermented/distilled beverages; and non-alcoholic beverages, coffees, and teas. Upon completion, students should be able to demonstrate an understanding of responsible alcohol service and the knowledge of beverages consumed in a hospitality operation.

**Course ID**  
S22915

### Credit Hours

**Credit Hours**  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

**Billing Hours**  
3

# HRM228 - Mixology

## Overview

### Course Description

This course provides instruction and demonstration for the practice of bartending. Emphasis is placed on set-up, including equipment/supplies/glassware; and production/service of alcoholic beverages including, but not limited to, beer, wine, cocktails, mixed/blended drinks, and specialty products. Upon completion, students should be able to demonstrate the basics of mixing alcoholic beverages in a commercial bar, tavern or nightclub setting.

**Course ID**  
S22822

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 4       |          | 4    |

# HRM230 - Club & Resort Management

## Overview

### Course Description

This course introduces specific principles of managing a hospitality operation in a resort or club setting. Topics include operational efficiencies, resort and club marketing, recreational and sport activity management, and retail management. Upon completion, students should be able to demonstrate an understanding of the specialized skills involved in resort and club management.

**Course ID**  
S22916

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# HRM240 - Marketing for Hospitality

## Overview

### Course Description

This course covers planning, organizing, directing, and analyzing the results of marketing programs for the hospitality industry. Emphasis is placed on target marketing, marketing mix, analysis, product and image development, use of current media, sales planning, advertising, public relations, and collateral materials. Upon completion, students should be able to apply the marketing process as it relates to the hospitality industry.

**Course ID**  
S22918

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# HRM245 - Human Resource Management-Hospitality

## Overview

### Course Description

This course introduces a systematic approach to human resource management in the hospitality industry. Topics include training/development, staffing, selection, hiring, recruitment, evaluation, benefit administration, employee relations, labor regulations/laws, discipline, motivation, productivity, shift management, contract employees and organizational culture. Upon completion, students should be able to apply human resource management skills for the hospitality industry.

**Course ID**  
S22919

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# HRM260 - Procurement for Hospitality

## Overview

### Course Description

This course provides information for management decisions regarding needs analysis and fulfillment for hospitality operations. Emphasis is placed on supply chain sourcing, environmental impacts, procurement technologies, and packaging of products such as food, beverages, supplies, furniture, and equipment. Upon completion, students should be able to demonstrate competence in planning and executing the procurement function.

**Course ID**  
S22823

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# HRM275 - Leadership-Hospitality

## Overview

### Course Description

This course introduces leadership traits, styles, and the roles and responsibilities of successful hospitality leaders while developing the student's personal leadership skills. Topics include formal and informal hospitality leadership; defining effective and ineffective leadership behavior; and leadership organizational change and planning within the hospitality industry. Upon completion, students will be able to apply appropriate leadership actions in real-world situations ranging from local to global hospitality environments.

**Course ID**  
S22824

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# HRM280 - Management Problems-Hospitality

## Overview

### Course Description

This course is designed to introduce students to timely issues within the hospitality industry and is intended to move students into a managerial mindset. Emphasis is placed on problem-solving skills using currently available resources. Upon completion, students should be able to demonstrate knowledge of how hospitality management principles may be applied to real challenges facing industry managers.

**Course ID**  
S22920

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take HRM-110       |

Take HRM-110(S10998);

# HRM285 - Service Projects-Hospitality

## Overview

### Course Description

This course introduces the application of hospitality management through engaging in community service. Emphasis is placed on problem solving skills, critical thinking, and applying academic concepts while using limited resources. Upon completion, students should be able to plan and execute hospitality-related projects that meet community needs.

**Course ID**  
S22825

### Credit Hours

**Credit Hours**  
5

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
5

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 6             | 6              |      |

# HSC110 - Orientation to Health Careers

## Overview

### Course Description

This course is a survey of health care professions. Topics include professional duties and responsibilities, working environments, and career choices. Upon completion, students should be able to demonstrate an understanding of the health care professions and be prepared to make informed career choices.

**Course ID**  
S12920

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**1**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 1         | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**1**

# HSC111 - Introduction to Healthcare Careers

## Overview

### Course Description

This course is designed to provide exposure to pathways and health sciences careers through a case-based approach. Topics include healthcare roles, scopes of practice, career opportunities, and educational requirements for a variety of health science professions. Upon completion, students should be able to demonstrate an understanding of the health care professions and interprofessional practice for patient care.

**Course ID**  
S26845

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# HSC112 - Health Sciences Pharmacology

## Overview

### Course Description

This course introduces principles of pharmacotherapeutic, pharmacodynamic, and pharmacokinetic properties of commonly prescribed drugs in each of the major drug classifications. Emphasis is placed on the national standards for safety in pharmacologic therapy and presents dosage calculations. Upon completion, students should be able to demonstrate a basic understanding of pharmacology and safe lab practices.

**Course ID**  
S26846

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# HSC115 - Introduction to Health Systems and Ethics

## Overview

### Course Description

This course introduces the structure of healthcare systems along with the ethical and legal principles guiding healthcare delivery. Topics include care organization, financing, regulation, and ethical responsibilities of providers. Upon completion, students will be able to describe key components of the U.S. healthcare system and apply basic ethical frameworks to healthcare situations.

**Course ID**  
S26847

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# HSC121 - Healthcare Communication

## Overview

### Course Description

This course provides a comprehensive introduction to interpersonal communication and conflict resolution skills essential in healthcare environments. Emphasis is placed on self-awareness, assertiveness, emotional intelligence, and conflict mediation. Upon completion, students should be able to demonstrate empathetic and effective communication with patients, families, and healthcare teams.

**Course ID**  
S26848

### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# HSC140 - Transcultural Healthcare

## Overview

### Course Description

This course is designed to introduce students to healthcare issues related to care of diverse populations. Topics include historical and theoretical foundations of transcultural healthcare, delivering services across the lifespan and caring for diverse persons in various healthcare settings. Upon completion, students should be able to provide culturally competent healthcare to individuals, families, groups, communities and institutions.

**Course ID**  
S26494

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3



# HSE110 - Introduction to Human Services

## Overview

### Course 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.

**Course ID**  
S12827

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       | 2         |      |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       | 2        |      |

# HSE112 - Group Process I

## Overview

### Course 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.

**Course ID**  
S12789

### Credit Hours

**Credit Hours**  
2

### Billing Hours

**Billing Hours**  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       | 1         |      |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       | 2        |      |

# HSE123 - Interviewing Techniques for Human Services

## Overview

### Course 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.

**Course ID**  
S26343

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

# HSE125 - Counseling

## Overview

### Course 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.

**Course ID**  
S21902

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

# HSE127 - Conflict Resolution

## Overview

### Course Description

This course introduces conflict resolution and mediation theory and practice. Emphasis is placed on exploring, evaluating, and negotiating solutions to conflict. Upon completion, students should be able to define compromise and demonstrate competence in facilitating resolution.

**Course ID**  
S26342

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 2       | 2         |      |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

# HSE135 - Orientation Lab I

## Overview

### Course Description

This course is designed to promote professional, program, and personal identification with the human services field. Emphasis is placed on interpersonal communication, verbal and non-verbal interactions, and team building. Upon completion, students should be able to identify with the human services profession and demonstrate basic team-building skills.

**Course ID**  
S11854

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

### Billing Hours

**Billing Hours**  
1

# HSE170 - Recovery Services

## Overview

### Course Description

This course provides an in-depth assessment of the array of services, resources and supports that people in recovery from mental health and substance use/ misuse issues need to be successful in their communities. Topics include life skills needed in recovery, self-advocacy, financial literacy, vocational skills, housing options, educational options, and community advocacy, while learning how to create and maintain appropriate personal and professional boundaries. Upon completion, students should be able to assess models of wellness and recovery that enhance outcomes through evidence-informed approaches to recovery, and strategize ways to build recovery communities.

**Course ID**  
S26347

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| 3                | 3            |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

# HSE210 - Diversity, Ethics, and Trends in Human Services

## Overview

### Course 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.

**Course ID**  
S26348

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| 3                | 3            |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

# HSE212 - Group Dynamics

## Overview

### Course 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.

### Course ID

S26349

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing Hours  
3

# HSE220 - Case Management

## Overview

### Course 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.

### Course ID

S26350

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

# HSE223 - Counseling Theories & Skills

## Overview

### Course 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.

**Course ID**  
S26351

### Credit Hours

**Credit Hours**  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# HSE225 - Crisis and Intervention Principles

## Overview

### Course 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.

**Course ID**  
S26352

### Credit Hours

**Credit Hours**  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# HSE227 - Children & Adolescents in Crisis

## Overview

### Course Description

This course covers the crises affecting children and adolescents in contemporary society. Emphasis is placed on abuse and neglect, mental health challenges, suicide, problematic family dynamics, poverty, and violence. Upon completion, students should be able to identify and discuss intervention strategies and available services for the major crises affecting children and adolescents.

**Course ID**  
S26354

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 3                      | 3            |

### Billing Hours

**Billing Hours**  
3

# HUM110 - Technology and Society

## Overview

### Course 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.

**Course ID**  
S14059

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 3                      | 3            |

### Billing Hours

**Billing Hours**  
3

# HUM115 - Critical Thinking

## Overview

### Course 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.

**Course ID**  
S26396

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

**Local Prerequisite**  
**Type**  
**Prerequisite**

Take one course DRE-097 DRE-098 ENG-002  
BSP-4002 ENG-011 ENG-025 ENG-111

Take 1 group; # Take DRE-097(S23642); # Take DRE-098(S23643); # Take ENG-002; From rule

RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-025; # Take ENG-111(S26393);

# HUM120 - Cultural Studies

## Overview

### Course 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.

**Course ID**  
S12973

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

**Billing Hours**  
3



# HUM121 - The Nature of America

## Overview

### Course Description

This course provides an interdisciplinary survey of the American cultural, social, and political experience. Emphasis is placed on the multicultural character of American society, distinctive qualities of various regions, and the American political system. Upon completion, students should be able to analyze significant cultural, social, and political aspects of American life.

**Course ID**  
S13080

### Credit Hours

**Credit Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# HUM122 - Southern Culture

## Overview

### Course 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.

**Course ID**  
S13030

### Credit Hours

**Credit Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# HUM123 - Appalachian Culture

## Overview

### Course Description

This course provides an interdisciplinary study of the unique features of Appalachian culture. Topics include historical, political, sociological, psychological, and artistic features which distinguish this region. Upon completion, students should be able to demonstrate a broad-based awareness and appreciation of Appalachian culture.

### Course ID

S13041

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

Billing Hours  
3

# HUM130 - Myth in Human Culture

## Overview

### Course 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.

### Course ID

S13721

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

Billing Hours  
3

# HUM140 - History of Architecture

## Overview

### Course Description

This course covers the political and religious influences upon architecture. Topics include specific historical buildings evidencing architectural advancement, with special emphasis upon modern architecture. Upon completion, students should be able to analyze and identify significant developments in architecture.

Course ID  
S11314

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

# HUM150 - American Women's Studies

## Overview

### Course Description

This course provides an inter-disciplinary study of the history, literature, and social roles of American women from Colonial times to the present. Emphasis is placed on women's roles as reflected in American language usage, education, law, the workplace, and mainstream culture. Upon completion, students should be able to identify and analyze the roles of women as reflected in various cultural forms.

Course ID  
S11249

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

# HUM160 - Introduction to Film

## Overview

### Course Description

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values reflected in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films.

Course ID  
S16395

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# HUM161 - Advanced Film

## Studies

## Overview

### Course Description

This course provides an advanced study of film art and production, building on skills learned in HUM 160. Topics include advanced film production techniques, film genres, examination of master directors' styles, and the relation of film to culture. Upon completion, students should be able to recognize and critically analyze advanced elements of film production.

Course ID  
S10896

### Credit Hours

Credit Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

## Simple Requisites

State prerequisite

Type  
Prerequisite

Take HUM-160

Take HUM-160(S16395);

## HUM170 - The Holocaust

### Overview

#### Course 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.

#### Course ID

S13684

#### Credit Hours

Credit  
Hours  
3  
Contact  
Hours  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

#### Billing Hours

Billing  
Hours  
3  
Contact  
Hours  
Min:  
3

## HUM180 - International Cultural Exploration

### Overview

#### Course 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.

#### Course ID

S22360

#### Credit Hours

Credit  
Hours  
3  
Contact  
Hours  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

#### Billing Hours

Billing  
Hours  
3  
Contact  
Hours  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

# HUM211 - Humanities I

## Overview

### Course 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.

**Course ID**  
S10430

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                                                          |
|----------------------------------------------------------|
| <b>State prerequisite</b>                                |
| <b>Type Prerequisite</b>                                 |
| <div>Take ENG-111</div> <div>Take ENG-111(S24022);</div> |

# HUM212 - Humanities II

## Overview

### Course 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.

**Course ID**  
S10487

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                                                          |
|----------------------------------------------------------|
| <b>State prerequisite</b>                                |
| <b>Type Prerequisite</b>                                 |
| <div>Take ENG-111</div> <div>Take ENG-111(S13673);</div> |

# HUM220 - Human Values and Meaning

## Overview

### Course 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.

### Course ID

S11527

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

#### Local Prerequisite

Type  
Prerequisite

#### Take ENG-112

Take ENG-112(S24024);

#### State prerequisite

Type  
Prerequisite

#### Take ENG-111

Take ENG-111(S13673);

# HUM230 - Leadership Development

## Overview

### Course 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.

**Course ID**  
S11154

### Credit Hours

**Credit Hours**  
3

|                        |                      |
|------------------------|----------------------|
| <b>Name</b>            |                      |
| <b>Classroom Hours</b> | <b>Code</b><br>CLASS |
| <b>Contact Hours</b>   | <b>Load</b>          |
| 3                      | 3                    |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

**Local Prerequisite**  
**Type**  
**Prerequisite**

|                       |
|-----------------------|
| <b>Take ENG-112</b>   |
| Take ENG-112(S24024); |

**State prerequisite**  
**Type**  
**Prerequisite**

|                       |
|-----------------------|
| <b>Take ENG-111</b>   |
| Take ENG-111(S13673); |

# HYD110 - Hydraulics/Pneumatics I

## Overview

### Course 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.

**Course ID**  
S23526

### Credit Hours

**Credit Hours**  
3

|                        |                      |
|------------------------|----------------------|
| <b>Name</b>            |                      |
| <b>Classroom Hours</b> | <b>Code</b><br>CLASS |
| <b>Contact Hours</b>   | <b>Load</b>          |
| 2                      | 2                    |

### Billing Hours

**Billing Hours**  
3

|                       |                    |
|-----------------------|--------------------|
| <b>Name</b>           |                    |
| <b>Lab/Shop Hours</b> | <b>Code</b><br>LAB |
| <b>Contact Hours</b>  | <b>Load</b>        |
| 3                     | 3                  |



# HYD112 - Hydraulics-Medium and Heavy Duty

## Overview

### Course Description

This course introduces hydraulic theory and applications as applied to mobile equipment. Topics include component studies such as pumps, motors, valves, cylinders, filters, reservoirs, lines, and fittings. Upon completion, students should be able to identify, diagnose, test, and repair hydraulic systems using schematics and technical manuals.

**Course ID**  
S10750

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# INS129 - Property and Casualty Insurance

## Overview

### Course Description

This course is designed for instructional areas related to property and casualty insurance (P&C) topics to meet the pre-licensing education requirements for insurance agents as prescribed by the North Carolina Department of Insurance - Agent Services Division. Topics include terms and concepts of property and casualty insurance, North Carolina Insurance Law, and multiple areas within P&C. identify the concepts covered in the NC Department of Insurance - Property and Casualty Insurance license exams.

**Course ID**  
S25469

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# INT110 - International Business

## Overview

### Course Description

This course provides an overview of the environment, concepts, and basic differences involved in international business. Topics include forms of foreign involvement, international trade theory, governmental influences on trade and strategies, international organizations, multinational corporations, personnel management, and international marketing. Upon completion, students should be able to describe the foundation of international business.

**Course ID**  
S24145

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# IPP111 - Introduction to Interpretation

## Overview

### Course Description

This course provides an orientation to the field of interpreting, interpretation models, cognitive processes associated with interpretation, professional ethical standards, employment opportunities, and working conditions. Topics include specialized jargon, code of ethics, theories, interpreter assessments/qualifications, and protocol associated with various settings. Upon completion, students should be able to explain the rationale for placement of interpreters and apply ethical standards to a variety of working situations.

**Course ID**  
S22719

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# IPP112 - Comparative Cultures

## Overview

### Course Description

This course introduces various cultural attributes and how they impact the consumers and the interpreting process. Topics include value systems of deaf and non-deaf individuals, enculturation stages, sociolinguistic continuum of language use within the deaf community, and cross-cultural management. Upon completion, students should be able to compare deaf and non-deaf cultures and discuss how attitudes impact communication interactions and interpreting.

### Course ID

S22720

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

| Local Prerequisite |
|--------------------|
| Type               |
| Corequisite        |

Take ASL-212 with a grade of C or better

Take ASL-212(S16236);

# IPP130 - Analytical Skills for Interpreting

Take ASL-112 and pass with grade of C or better.  
Take ASL-112(S12047);

## Overview

### Course Description

This course is designed to improve cognitive processes associated with interpreting, listening, short-term memory, semantic equivalence, visual/auditory processing, thought organization, and logic. Emphasis is placed on developing skills necessary to generate equivalent messages between ASL and English. Upon completion, students should be able to consecutively interpret non-technical, interactive messages between ASL and English.

Course ID  
S12361

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 4       | 4        |      |

### Simple Requisites

| Local Prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take ASL-112(S12047);

# IPP152 - ASL/English Translation

## Overview

### Course Description

This course provides a study of the component parts of a cultural scheme and the manner in which ASL and English differ. Emphasis is placed on analyzing, discussing, and translating basic ASL and English texts. Upon completion, students should be able to discuss and apply techniques of cross-cultural communication and translation between deaf and non-deaf communities.

Course ID  
S25620

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 4       |          | 4    |

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take ASL-112         |

# IPP161 - Consecutive Interpreting

## Overview

### Course Description

This course introduces the process of ASL/English consecutive interpreting in a variety of interview, meeting, and small conference settings. Emphasis is placed on generating equivalent messages between ASL and English. Upon completion, students should be able to discuss and apply the principles of the protocol of consecutive interpreting.

**Course ID**  
S13756

### Credit Hours

**Credit Hours**  
5

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
5

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 6       |          | 6    |

### Simple Requisites

|                           |
|---------------------------|
| <b>State prerequisite</b> |
| <b>Type</b>               |
| <b>Prerequisite</b>       |
|                           |
| <b>Take IPP-152</b>       |
| Take IPP-152(S25620);     |

# IPP221 - Simultaneous Interpreting I

## Overview

### Course Description

This course introduces simultaneous ASL/English interpreting through a variety of expository texts originating in group, meeting, and conference settings. Emphasis is placed on analyzing expository texts, identifying registers, and applying principles of the protocol of interpreting. Upon completion, students should be able to apply the appropriate linguistic and/or cultural adjustments required to generate equivalent messages.

**Course ID**  
S14047

### Credit Hours

**Credit Hours**  
5

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
5

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 6       |          | 6    |

### Simple Requisites

|                           |
|---------------------------|
| <b>State prerequisite</b> |
| <b>Type</b>               |
| <b>Prerequisite</b>       |

Take IPP-161

Take IPP-161(S13756);

IPP224 - ASL to English Interpretation

Overview

Course Description

This course is designed to improve skills in ASL to English interpretation. Emphasis is placed on receptive skills, equivalent messages, grammatically correct English, and appropriate content, mood, and register. Upon completion, students should be able to generate appropriate English equivalents and apply appropriate linguistic and/or cultural adjustments.

Course ID  
S14062

Credit Hours

Credit  
Hours  
Min:  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

Billing Hours

Billing  
Hours  
Min:  
2

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

Simple Requisites

State prerequisite  
Type  
Prerequisite

Take IPP-152

Take IPP-152(S13199);

# IPP240 - Ethical Standards and Practices

## Overview

### Course Description

This course develops intellectual and ethical decision-making abilities and considers common ethical dilemmas that arise within the interpreting process. Topics include a model of ethical/ intellectual development and the application of the model to interpreting practices. Upon completion, students should be able to discuss ethical resolution to various case studies and apply recognized principles of professional behavior to the interpreting process.

### Course ID

S13736

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

| State concurrent or previous courses |  |
|--------------------------------------|--|
| Type                                 |  |
| Corequisite                          |  |



Take IPP-221

Take IPP-221(S14047);

## ISC112 - Industrial Safety

### Overview

#### Course Description

This course introduces the principles of industrial safety. Emphasis is placed on industrial safety and OSHA regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance.

#### Course ID

S23527

#### Credit Hours

Credit  
Hours  
3  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

#### Billing Hours

Billing  
Hours  
3  
Min:  
2

## ISC121 - Environmental Health & Safety

### Overview

#### Course 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.

#### Course ID

S20650

#### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

#### Billing Hours

Billing  
Hours  
3  
Min:  
3

# ISC130 - Introduction to Quality Control

## Overview

### Course Description

This course introduces the philosophies, principles, and techniques of managing quality. Topics include the functions, responsibilities, structures, costs, reports, personnel, and vendor-customer relationships associated with quality control and management. Upon completion, students should be able to demonstrate an understanding of quality control and management.

**Course ID**  
S12046

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name           | Classroom | Code        |
|----------------|-----------|-------------|
| Hours          |           | CLASS       |
| <b>Contact</b> |           |             |
| <b>Hours</b>   |           | <b>Load</b> |
| 3              |           | 3           |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                                          |
|------------------------------------------|
| <b>Prerequisite</b>                      |
| <b>Type</b>                              |
| <b>Prerequisite</b>                      |
| <b>Take MAT-121 or MAT-171</b>           |
| Take MAT-121(S23927) or MAT-171(S23934); |

# ISC131 - Quality Management Overview

## Course Description

This course provides a study and analysis of the aspects and implications of quality management that lead to customer satisfaction through continuous quality improvement. Topics include Total Quality Management, ISO 9000, organizing for quality, supplier/vendor relationships, and the role of leadership in quality management. Upon completion, students should be able to demonstrate an understanding of quality management concepts and techniques.

**Course ID**  
S11943

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name           | Classroom | Code        |
|----------------|-----------|-------------|
| Hours          |           | CLASS       |
| <b>Contact</b> |           |             |
| <b>Hours</b>   |           | <b>Load</b> |
| 3              |           | 3           |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# ISC136 - Productivity Analysis I

## Overview

### Course Description

This course covers modern methods of measuring, analyzing, and improving productivity. Topics include methods analysis, standardized practices, process analysis, and human factors. Upon completion, students should be able to apply productivity improvement techniques.

**Course ID**  
S20651

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact Hours  | Load     |
| 3              | 3        |

# ISC210 - Operation and Production Planning

## Overview

### Course Description

This course includes the fundamentals of operations and production planning, forecasting, and scheduling. Topics include demand management, production planning and control, scheduling, and budgeting. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques involved in operations and production planning.

**Course ID**  
S11886

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take OMT-110

Take OMT-110;

# ISC212 - Metrology

## Overview

### Course 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.

Course ID  
S11923

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

# ISC220 - Lean Manufacturing

## Overview

### Course Description

This course introduces students to the concept of lean manufacturing as a means of waste reduction. Topics include the examination of manufacturing operations and the incorporation of lean techniques to reduce waste, cost, time, and materials in manufacturing processes. Upon completion, students should be able to demonstrate an understanding of lean manufacturing systems and how they benefit the environment and business.

Course ID  
S22476

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

## Simple Requisites

Local Prerequisite  
Type  
Prerequisite

Take OMT-110;

# LET110 - Basic Law Enforcement Training (BLET)

## Overview

### Course 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.

**Course ID**  
S26150

### Credit Hours

**Credit Hours**  
37

### Billing Hours

**Billing Hours**  
37

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 28              | 28         |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |

| Contact Hours | Load |
|---------------|------|
| 27            | 27   |

# LEX110 - Introduction to Paralegal Study

## Overview

### Course Description

This course introduces the paralegal profession and the legal system, and an emphasis is placed on the role of professional and legal ethics. Topics include regulations, ethics, case analysis, legal reasoning, career opportunities, professional organizations, terminology and other related topics. Upon completion, students should be able to explain the role of a paralegal and identify the skills, knowledge, and ethics required of paralegals.

**Course ID**  
S21169

### Credit Hours

**Credit Hours**  
2

### Billing Hours

**Billing Hours**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 2               | 2          |

# LEX120 - Legal Research/ Writing I

## Overview

### Course Description

This course introduces the techniques of legal research and writing. Emphasis is placed on locating, analyzing, applying, and updating sources of law; effective legal writing, including proper citation; and the use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course.

**Course ID**  
S10824

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# LEX121 - Legal Research/ Writing II

## Overview

### Course Description

This course covers advanced topics in legal research and writing. Topics include more complex legal issues and assignments involving preparation of legal memos, briefs, and other documents and the advanced use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course.

**Course ID**  
S10825

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

## Simple Requisites

State prerequisite

Type  
Prerequisite

Take LEX-120

Take LEX-120;

## LEX130 - Civil Injuries

### Overview

#### Course Description

This course covers traditional tort concepts and the evolving body of individual rights created by statute. Topics include intentional and non-intentional torts with emphasis on negligence, strict liability, civil rights, workplace and environmental liability, remedies, and damages. Upon completion, students should be able to recognize, explain, and evaluate elements of civil injuries and related defenses.

**Course ID**  
S16405

#### Credit Hours

**Credit Hours**  
3

#### Billing Hours

**Billing Hours**  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

## LEX140 - Civil Litigation I

### Overview

#### Course Description

This course introduces the structure of the legal system and the rules governing civil litigation. Topics include jurisdiction state and federal rules of civil procedure and evidence. Upon completion, students should be able to assist an attorney in pre-litigation matters and preparation of pleadings and motions.

**Course ID**  
S16406

#### Credit Hours

**Credit Hours**  
3

#### Billing Hours

**Billing Hours**  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

# LEX141 - Civil Litigation II

## Overview

### Course Description

This course covers advanced topics in the civil litigation process. Topics include motions, discovery, and trial and appellate procedures. Upon completion, students should be able to assist an attorney in preparing and organizing documents for trial, settlement and post-trial practice.

Course ID  
S16407

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing  
Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

State prerequisite

Type Prerequisite

Take LEX-140

Take LEX-140(S16406);

# LEX150 - Commercial Law I

## Overview

### Course Description

This course covers legally enforceable agreements, forms of organization, and selected portions of the Uniform Commercial Code. Topics include drafting and enforcement of contracts, leases, and related documents and selection and implementation of business organization forms, sales, and commercial papers. Upon completion, students should be able to apply the elements of a contract, prepare various business documents, and understand the role of commercial paper.

Course ID  
S10945

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing  
Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |



# LEX151 - Commercial Law II

## Overview

### Course Description

This course is a continuation of LEX 150 and covers advanced topics in Business and Commercial Law. Topics include agency and employment, insurance, computer law, intellectual property, personal property and bailment, corporate organizations and bankruptcy. Upon completion, students will understand and be able to apply legal principles governing these topics and be able to draft a variety of financial instruments.

**Course ID**  
S11001

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type Prerequisite     |
| Take LEX-150          |
| Take LEX-150(S10945); |

# LEX160 - Criminal Law & Procedure

## Overview

### Course Description

This course introduces substantive criminal law and procedural rights of the accused. Topics include elements of state/federal crimes, defenses, constitutional issues, pre-trial and trial process, and other related topics. Upon completion, students should be able to explain elements of specific crimes and assist an attorney in preparing a criminal case.

**Course ID**  
S11247

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# LEX170 - Administrative Law

## Overview

### Course Description

This course covers the scope, authority, and regulatory operations of various federal, state, and local administrative agencies. Topics include social security, worker's compensation, unemployment, zoning, and other related topics. Upon completion, students should be able to research sources of administrative law, investigate, and assist in representation of clients before administrative agencies.

**Course ID**  
S12960

### Credit Hours

**Credit Hours**  
2

|                        |                      |
|------------------------|----------------------|
| <b>Name</b>            |                      |
| <b>Classroom Hours</b> | <b>Code</b><br>CLASS |
| <b>Contact Hours</b>   | <b>Load</b>          |
| 2                      | 2                    |

### Billing Hours

**Billing Hours**  
2

# LEX210 - Real Property I

## Overview

### Course Description

This course introduces the study of real property law. Topics include the distinction between real and personal property, various estates, mechanics of conveyance and encumbrance, recordation, special proceedings, and other related topics. Upon completion, students should be able to identify estates, forms of deeds, requirements for recording, and procedures to enforce rights to real property.

**Course ID**  
S16409

### Credit Hours

**Credit Hours**  
3

|                        |                      |
|------------------------|----------------------|
| <b>Name</b>            |                      |
| <b>Classroom Hours</b> | <b>Code</b><br>CLASS |
| <b>Contact Hours</b>   | <b>Load</b>          |
| 3                      | 3                    |

### Billing Hours

**Billing Hours**  
3

# LEX211 - Real Property II

## Overview

### Course Description

This course continues the study of real property law relating to title examination and preparation of closing documents. Topics include use of courthouse and other public records in title examination and preparation of documents required in real estate transactions and closings. Upon completion, students should be able to plot/draft a description, perform complete title examination, draft closing documents including title insurance forms, and prepare disbursement reconciliation.

### Course ID

S13155

### Credit Hours

Credit Hours  
3  
Minutes: 3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing Hours  
3  
Minutes: 3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take LEX-210       |

Take LEX-210(S10636);

# LEX240 - Family Law

## Overview

### Course Description

This course covers laws governing domestic relations. Topics include marriage, separation, divorce, child custody, support, property division, adoption, domestic violence, and other related topics. Upon completion, students should be able to interview clients, gather information, and draft documents related to family law.

### Course ID

S16411

### Credit Hours

Credit Hours  
3  
Minutes: 3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing Hours  
3  
Minutes: 3

# LEX250 - Wills, Estates, & Trusts

## Overview

### Course Description

This course covers various types of wills, trusts, probate, estate administration, and intestacy. Topics include types of wills and execution requirements, caveats and dissents, intestate succession, inventories and accountings, distribution and settlement, and other related topics. Upon completion, students should be able to draft simple wills, prepare estate forms, understand administration of estates including taxation, and explain terms regarding trusts.

**Course ID**  
S12819

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

# LEX260 - Bankruptcy and Collections

## Overview

### Course Description

This course provides an overview of the laws of bankruptcy and the rights of creditors and debtors. Topics include bankruptcy procedures and estate management, attachment, claim and delivery, repossession, foreclosure, collection, garnishment, and post-judgment collection procedure. Upon completion, students should be able to prepare and file bankruptcy forms, collection letters, statutory liens, and collection of judgments.

**Course ID**  
S20834

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# LEX270 - Law Office Management/Technology

## Overview

### Course Description

This course provides an overview of law office management and organization. Topics include office forms, filing systems, billing/time keeping, computer systems, calendar systems, library administration, case management, office/personnel procedures, ethics, and technology. Upon completion, students should be able to establish and maintain various law office systems, monitor case progress, and supervise non-lawyer personnel.

**Course ID**  
S10858

### Credit Hours

**Credit Hours**  
2

| Name                 | Classroom   | Code  |
|----------------------|-------------|-------|
| Hours                |             | CLASS |
| <b>Contact Hours</b> | <b>Load</b> |       |
| 1                    | 1           |       |

### Billing Hours

**Billing Hours**  
2

| Name                 | Lab/Shop    | Code |
|----------------------|-------------|------|
| Hours                |             | LAB  |
| <b>Contact Hours</b> | <b>Load</b> |      |
| 2                    | 2           |      |

# LEX273 - North Carolina Certified Paralegal Review Course

## Overview

### Course Description

This course provides an overview of the topics assessed on the North Carolina Certified Paralegal (NCCP) Exam. Topics include Wills, Trusts, and Estates; Family Law; Civil Litigation; Real Property; Commercial Law; Ethics; legal research, grammar and writing. Upon completion, students should be prepared to sit for the NCCP exam.

**Course ID**  
S26126

### Credit Hours

**Credit Hours**  
2

| Name                 | Classroom   | Code  |
|----------------------|-------------|-------|
| Hours                |             | CLASS |
| <b>Contact Hours</b> | <b>Load</b> |       |
| 2                    | 2           |       |

### Billing Hours

**Billing Hours**  
2

### Simple Requisites

**State prerequisite**

**Type Prerequisite**

**Take LEX-120 and LEX-140(S16406)**  
Take LEX-120 LEX-140(S16406);

# LEX280 - Ethics & Professionalism

## Overview

### Course Description

This course reinforces legal ethics and the role of the paralegal in a professional work environment. Topics include a review of ethics, employment opportunities, and search techniques; paralegal certification and other related topics. Upon completion, students should be able to understand the paralegal's role in the ethical practice of law.

**Course ID**  
S16413

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 2       | 2         |       |

### Billing Hours

**Billing Hours**  
2

# LEX288 - Elder Law

## Overview

### Course Description

This course provides an overview of laws especially relevant to older persons. Topics include health care decision-making, living wills, powers of attorney, financial and estate planning, government benefits, housing issues, elder abuse, and ethical considerations. Upon completion, students should be able to assist an attorney in addressing legal issues pertinent to the elderly.

**Course ID**  
S22707

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

**Billing Hours**  
3

# LSG111 - Basic Landscape Technique

## Overview

### Course Description

This course introduces basic principles essential to sustainable landscape gardening. Topics include soils, propagation, watering, fertilizing, pruning, pest control, and planting. Upon completion, students should be able to perform basic sustainable gardening techniques essential to maintaining a sustainable landscape.

**Course ID**  
S23387

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

**Billing Hours**  
2

### Simple Requisites

| Local Concurrent Or Previous Courses                     |
|----------------------------------------------------------|
| Type                                                     |
| Corequisite                                              |
| Take LSG-121, LSG-122 or LSG-123                         |
| Take LSG-123(S11290) LSG-121(S11318) or LSG-122(S11369); |

# LSG121 - Fall Gardening Lab

## Overview

### Course Description

This course provides basic hands-on experience in fall gardening techniques. Emphasis is placed on pruning, irrigation, planting, fertilizing, pest control, equipment operation, and turf maintenance. Upon completion, students should be able to perform various techniques essential to maintaining the fall landscape.

**Course ID**  
S11318

### Credit Hours

**Credit Hours**  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact        | Load |
| Hours          | 6    |
|                | 6    |

### Billing Hours

**Billing Hours**  
2

# LSG122 - Spring Gardening Lab

## Overview

### Course Description

This course provides familiarization with basic gardening techniques by performing practical hands-on exercises required for the spring season. Emphasis is placed on pruning, irrigation, planting, fertilizing, pest control, equipment operation, turf maintenance, and landscape construction. Upon completion, students should be able to satisfactorily perform various practices essential to maintaining the landscape in the spring season.

**Course ID**  
S11369

### Credit Hours

**Credit Hours**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 6        | 6    |

### Billing Hours

**Billing Hours**  
2

# LSG123 - Summer Gardening Lab

## Overview

### Course Description

This course provides basic hands-on experience in summer gardening techniques. Emphasis is placed on pruning, irrigation, planting, fertilizing, pest control, equipment operation, turf maintenance, landscape construction, and maintaining fruits and vegetables. Upon completion, students should be able to perform various techniques essential to maintaining the summer landscape.

**Course ID**  
S11290

### Credit Hours

**Credit Hours**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 6        | 6    |

### Billing Hours

**Billing Hours**  
2



# LSG232 - Garden Management

## Overview

### Course Description

This course covers the implementation of knowledge gained in previous landscape gardening courses. Emphasis is placed on scheduling, designing, renovation, and plant management. Upon completion, students should be able to collate the material learned in the Landscape Gardening curriculum and apply it to various landscape gardening situations.

**Course ID**  
S24085

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name           | Classroom | Code  |
|----------------|-----------|-------|
| Hours          |           | CLASS |
| <b>Contact</b> |           |       |
| Hours          |           | Load  |
| 1              |           | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

| Name           | Lab/Shop | Code |
|----------------|----------|------|
| Hours          |          | LAB  |
| <b>Contact</b> |          |      |
| Hours          |          | Load |
| 2              |          | 2    |

### Simple Requisites

|                                       |
|---------------------------------------|
| <b>State prerequisite</b>             |
| <b>Type</b>                           |
| <b>Prerequisite</b>                   |
| <b>Take All: LSG-123 and HOR-161</b>  |
| Take LSG-123(S11290) HOR-161(S23285); |

# MAC111 - Machining Technology I

## Overview

### Course Description

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments. Upon completion, students should be able to safely perform the basic operations of measuring, layout, drilling, sawing, turning, and milling.

**Course ID**  
S11631

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**6**

| Name           | Classroom | Code  |
|----------------|-----------|-------|
| Hours          |           | CLASS |
| <b>Contact</b> |           |       |
| Hours          |           | Load  |
| 2              |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**6**

| Name           | Lab/Shop | Code |
|----------------|----------|------|
| Hours          |          | LAB  |
| <b>Contact</b> |          |      |
| Hours          |          | Load |
| 12             |          | 12   |

# MAC112 - Machining Technology II

## Overview

### Course Description

This course provides additional instruction and practice in the use of precision measuring tools, lathes, milling machines, and grinders. Emphasis is placed on setup and operation of machine tools including the selection and use of work holding devices, speeds, feeds, cutting tools, and coolants. Upon completion, students should be able to perform basic procedures on precision grinders and advanced operations of measuring, layout, drilling, sawing, turning, and milling.

### Course ID

S22988

### Credit Hours

Credit  
Hours  
6  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
6  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 12      |          | 12   |

### Simple Requisites

| Local Prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take MAC-111;

Take MAC-111;

# MAC113 - Machining Technology III

## Overview

### Course 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.

Course ID  
S22989

### Credit Hours

Credit  
Hours  
6  
Min:

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
6  
Min:

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 12      |          | 12   |

### Simple Requisites

|                                       |
|---------------------------------------|
| Prerequisite                          |
| Type                                  |
| Prerequisite                          |
| Take MAC-112(S22988) MEC-231(S20658); |
| Take MAC-112(S22988) MEC-231(S20658); |

# MAC114 - Introduction to Metrology

## Overview

### Course 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.

Course ID  
S11725

### Credit Hours

Credit  
Hours  
2  
Min:

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
2  
Min:

### Simple Requisites

|                       |
|-----------------------|
| Local Requisite       |
| Type                  |
| Prerequisite          |
| Take MAC-112;         |
| Take MAC-112(S22988); |

# MAC121 - Introduction to CNC

## Overview

### Course 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.

Course ID  
S11049

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
2

# MAC122 - CNC Turning

## Overview

### Course 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.

Course ID  
S11081

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

### Simple Requisites

Local Prerequisite  
Type  
Prerequisite

Take MAC-124  
Take MAC-124;

# MAC124 - CNC Milling

## Overview

### Course 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.

### Course ID

S11096

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

# MAC131 - Blueprint Reading-Machining I

## Overview

### Course Description

This course covers the basic principles of blueprint reading and sketching. Topics include multi-view drawings; interpretation of conventional lines; and dimensions, notes, and thread notations. Upon completion, students should be able to interpret basic drawings, visualize parts, and make pictorial sketches.

### Course ID

S12563

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# MAC132 - Blueprint Reading-Machining II

## Overview

### Course Description

This course introduces more complex industrial blueprints. Emphasis is placed on auxiliary views, section views, violations of true project, special views, applications of GD & T, and interpretation of complex parts. Upon completion, students should be able to read and interpret complex industrial blueprints.

**Course ID**  
S22991

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

| Prerequisite  |
|---------------|
| Type          |
| Prerequisite  |
| Take MAC-131  |
| Take MAC-131; |

# MAC152 - Advanced Machining Calculations

## Overview

### Course Description

This course combines mathematical functions with practical machine shop applications and problems. Emphasis is placed on gear ratios, lead screws, indexing problems, and their applications in the machine shop. Upon completion, students should be able to calculate solutions to machining problems.

**Course ID**  
S12224

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

| Local Requisites                                      |
|-------------------------------------------------------|
| Type                                                  |
| Prerequisite                                          |
| Take MAT-111 MAT-121 MAT-143;                         |
| Take MAT-110(S26398) MAT-121(S26399) MAT-143(S26401); |

# MAC222 - Advanced CNC Turning

## Overview

### Course 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.

Course ID  
S22994

### Credit Hours

Credit  
Hours  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| Prerequisite  |
|---------------|
| Type          |
| Prerequisite  |
| Take MAC-122  |
| Take MAC-122; |

# MAC224 - Advanced CNC Milling

## Overview

### Course 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.

Course ID  
S23000

### Credit Hours

Credit  
Hours  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| Prerequisite  |
|---------------|
| Type          |
| Prerequisite  |
| Take MAC-124  |
| Take MAC-124; |

# MAC233 - Appl in CNC Machining

## Overview

### Course 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.

**Course ID**  
S21152

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**6**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**6**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 12      |          | 12   |

### Simple Requisites

| Local Requistes               |
|-------------------------------|
| Type                          |
| Corequisite                   |
|                               |
| Take MAC-113 MEC-232;         |
| Take MAC-113(S22989) MEC-232; |

# MAC234 - Advanced Multi-Axis Machining

## Overview

### Course 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.

**Course ID**  
S23003

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

| Local Requistes |
|-----------------|
| Type            |
| Corequisite     |
|                 |



Take MAC-224 MEC-232;

Take MAC-224(S23000) MEC-232;

# MAC241 - Jigs & Fixtures I

## Overview

### Course 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.

### Course ID

S22996

### Credit Hours

Credit  
Hours  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing  
Hours  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 6              | Load 6   |

### Simple Requisites

| Prerequisite                          |
|---------------------------------------|
| Type                                  |
| Prerequisite                          |
| Take MAC-112 MEC-231                  |
| Take MAC-112(S22988) MEC-231(S20658); |

# MAC245 - Mold Construction I

## Overview

### Course Description

This course introduces the principles of mold making. Topics include types, construction, and application of molds. Upon completion, students should be able to design and build simple molds.

**Course ID**  
S23004

### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 6             | 6              |      |

### Simple Requisites

| Prerequisite  |
|---------------|
| Type          |
| Prerequisite  |
| Take MEC-232  |
| Take MEC-232; |

# MAC248 - Production Procedures

## Overview

### Course Description

This course covers product planning and control and scheduling and routing of operations. Topics include cost-effective production methods, dimensional and statistical quality control, and the tooling and machines required for production. Upon completion, students should be able to plan, set up, and produce cost-effective quality machined parts.

**Course ID**  
S10897

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

| Prerequisite                          |
|---------------------------------------|
| Type                                  |
| Prerequisite                          |
| Take MAC-113 MAT-121                  |
| Take MAC-113(S22989) MAT-121(S23927); |

# MAT025 - Concepts of Essential Math/Statistics

## Overview

### Course 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.

**Course ID**  
S26301

### Credit Hours

**Credit Hours**  
3

|                       |              |
|-----------------------|--------------|
| <b>Name</b>           |              |
| <b>Classroom Code</b> |              |
| <b>Hours</b>          | <b>CLASS</b> |
| <b>Contact Hours</b>  | <b>Load</b>  |
| <b>3</b>              | <b>3</b>     |

### Billing Hours

**Billing Hours**  
3

# MAT035 - Concepts of Algebra

## Overview

### Course 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.

**Course ID**  
S26302

### Credit Hours

**Credit Hours**  
3

|                       |              |
|-----------------------|--------------|
| <b>Name</b>           |              |
| <b>Classroom Code</b> |              |
| <b>Hours</b>          | <b>CLASS</b> |
| <b>Contact Hours</b>  | <b>Load</b>  |
| <b>3</b>              | <b>3</b>     |

### Billing Hours

**Billing Hours**  
3

# MAT045 - Math Skills Support

## Overview

### Course 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.

### Course ID

S26303

### Credit Hours

Credit  
Hours  
4  
S  
Min:  
2

### Billing Hours

Billing  
Hours  
S  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

# MAT050 - Basic Math Skills

## Overview

### Course Description

This course is designed to strengthen basic math skills. Topics include properties, rounding, estimating, comparing, converting, and computing whole numbers, fractions, and decimals. Upon completion, students should be able to perform basic computations and solve relevant mathematical problems.

### Course ID

S14130

### Credit Hours

Credit  
Hours  
4  
S  
Min:  
4

### Billing Hours

Billing  
Hours  
S  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

# MAT110 - Mathematical Measurement and Literacy

## Overview

### Course 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.

**Course ID**  
S26398

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# MAT121 - Algebra/ Trigonometry I

## Overview

### Course 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.

**Course ID**  
S26399

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

## Simple Requisites

Local Prerequisite

Type

Prerequisite

Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040 DMA-050 DMA-060; # Take DMA-010 DMA-020 DMA-030 DMA-045 DMA-060; # Take DMA-025 DMA-040 DMA-050 DMA-060; # Take DMA-025 DMA-045 DMA-060; # Take MAT-035; # Take MAT-071; # Take MAT-021; # Take MAT-003; From rule RMINP3; # Take BSP-4003; From rule BSPMINP3;

Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040(S24983) DMA-050(S24984) DMA-060(S24985); # Take DMA-010 DMA-020 DMA-030 DMA-045 DMA-060(S24985); # Take DMA-025 DMA-040(S24983) DMA-050(S24984) DMA-060(S24985); # Take DMA-025 DMA-045 DMA-060(S24985); # Take MAT-035; # Take MAT-071(S25141); # Take MAT-021; # Take 1 courses; From rule RMINP3; # Take MAT-003; From rule RMINP3; # Take BSP-4003(L27300); From rule BSPMINP3;

MAT141 - Mathematical Concepts I

Overview

Course Description

This course is the first of a two-course sequence that develops a deeper understanding and appreciation of the basic concepts of mathematics. Emphasis is placed on sets, logic, number bases, elementary number theory, introductory algebra, measurement including metrics, and problem solving. Upon completion, students should be able to communicate orally and in writing these basic mathematical concepts.

Course ID

S26400

Credit Hours

Credit Hours

3

Contact Hours

3

Load

3

Billing Hours

Billing Hours

3

Simple Requisites

Local Prerequisite

Type

Prerequisite

Take 1 Set Set 1: DMA-010, DMA-020,

**DMA-030, and DMA-040 Set 2: DMA-025 and DMA-040 Set 3: MAT-121 Set 4: MAT-171 Set 5: MAT-003 Set 6: BSP-4003 Set 7: MAT-025 Set 8: MAT-035**

Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040(S24983); # Take DMA-025 DMA-040(S24983); # Take MAT-121(S26399); # Take MAT-171(S26403); # Take MAT-003; # Take BSP-4003(L27300); # Take MAT-025; # Take MAT-035;

# MAT142 - Mathematical Concepts II

## Overview

### Course Description

**This course is the second of a two-course sequence that develops a deeper understanding and appreciation of the basic concepts of mathematics. Emphasis is placed on probability, statistics, functions, introductory geometry, and mathematics of finance. Upon completion, students should be able to communicate orally and in writing these basic mathematical concepts and utilize technology as a mathematical tool.**

**Course ID**  
**S20300**

### Credit Hours

**Credit Hours**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
**3**

### Simple Requisites

**State prerequisite**

**Type**  
**Prerequisite**

**Take MAT-141**

Take MAT-141(S13022);

# MAT143 - Quantitative Literacy

## Overview

### Course 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.

### Course ID

S26401

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 2             | 2              |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 2             | 2             |



Simple Requisites

Local Prerequisite

Type  
Prerequisite

MAT-143

Take 1 group; # Take DMA-010

DMA-020

DMA-030 DMA-040 DMA-050 # Take

DMA-010

DMA-020 DMA-030 DMA-045; #

Take DMA-025

DMA-040 DMA-050; # Take

DMA-025

DMA-045; # Take MAT-003; From

rule RMINP2; # Take BSP-4003; From rule

BSPMINP2; # Take MAT-043; # Take MAT-052; #

Take MAT-025

# Take MAT-035

Take 1 group; # Take DMA-010 DMA-020

DMA-030 DMA-040(S24983)

DMA-050(S24984); # Take DMA-010 DMA-020

DMA-030 DMA-045; # Take DMA-025

DMA-040(S24983) DMA-050(S24984); # Take

DMA-025 DMA-045; # Take MAT-003; From rule

RMINP2; # Take BSP-4003(S25168); From rule

BSPMINP2; # Take MAT-043; # Take MAT-052; #

Take MAT-025; # Take MAT-035;

MAT152 - Statistical Methods I

Overview

Course 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.

Course ID  
S26402

Credit Hours

Credit  
Hours  
4

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

Billing Hours

Billing  
Hours  
4

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 2             | 2             |

Simple Requisites

Local Prerequisite

Type  
Prerequisite

**Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040 DMA-050; # Take DMA-010 DMA-020 DMA-030 DMA-045; # Take DMA-025 DMA-040 DMA-050 # Take DMA-025 DMA-045; # Take MAT-003; From rule RMINP2; # Take BSP-4003;From rule BSPMINP2; # Take MAT-043; # Take MAT-052; # Take MAT-025 # Take MAT-035**

Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040(S24983) DMA-050(S24984); # Take DMA-010 DMA-020 DMA-030 DMA-045; # Take DMA-025 DMA-040(S24983) DMA-050(S24984); # Take DMA-025 DMA-045; # Take MAT-003; From rule RMINP2; # Take BSP-4003(S25168); From rule BSPMINP2; # Take MAT-043; # Take MAT-052; # Take MAT-025; # Take MAT-035;

# MAT167 - Discrete Mathematics

## Overview

### Course Description

This course is designed to develop problem-solving and reasoning skills using an algorithmic approach. Topics include sets, number theory, numeration systems, linear programming, traditional and propositional logic, truth tables, Venn diagrams, elementary proofs, and Boolean algebra. Upon completion, students should be able to apply logic and other mathematical concepts to solve a variety of problems.

**Course ID**  
**S23933**

### Credit Hours

**Credit Hours**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact         |            |
| Hours           | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
**3**

### Simple Requisites

| State prerequisite           |
|------------------------------|
| Type Prerequisite            |
| Take One: MAT-121 or MAT-171 |

Take MAT-121(S23927) or MAT-171(S23934);

# MAT171 - Precalculus Algebra

## Overview

### Course 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.

Course ID  
S26403

### Credit Hours

Credit  
Hours  
Min:  
4

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 2             | 2             |

### Simple Requisites

Local Prerequisite  
Type  
Prerequisite

Take 1 group; # Take DMA-010 DMA-020

DMA-030 DMA-040 DMA-050 DMA-060  
DMA-070 DMA-080; # Take DMA-010  
DMA-020 DMA-030 DMA-040 DMA-050  
DMA-065; # Take DMA-010 DMA-020  
DMA-030 DMA-045 DMA-060 DMA-070  
DMA-080; # Take DMA-010 DMA-020  
DMA-030 DMA-045 DMA-065; # Take  
DMA-025 DMA-040 DMA-050 DMA-060  
DMA-070 DMA-080; # Take DMA-025  
DMA-040 DMA-050 DMA-065; # Take  
DMA-025 DMA-045 DMA-060 DMA-070  
DMA-080; # Take DMA-025 DMA-045  
DMA-065; # Take MAT-021 # Take MAT-121; #  
Take MAT-035; # Take MAT-071; # Take  
BSP-4003; From rule BSPMINP3; # Take  
MAT-003; From rule RMINP3

Take 1 group; # Take DMA-010 DMA-020  
DMA-030 DMA-040(S24983) DMA-050(S24984)  
DMA-060(S24985) DMA-070(S24987)  
DMA-080(S24988); # Take DMA-010 DMA-020  
DMA-030 DMA-040(S24983) DMA-050(S24984)  
DMA-065(S25064); # Take DMA-010 DMA-020  
DMA-030 DMA-045 DMA-060(S24985)  
DMA-070(S24987) DMA-080(S24988); # Take  
DMA-010 DMA-020 DMA-030 DMA-045  
DMA-065(S25064); # Take DMA-025  
DMA-040(S24983) DMA-050(S24984)  
DMA-060(S24985) DMA-070(S24987)  
DMA-080(S24988); # Take DMA-025  
DMA-040(S24983) DMA-050(S24984)  
DMA-065(S25064); # Take DMA-025 DMA-045  
DMA-060(S24985) DMA-070(S24987)  
DMA-080(S24988); # Take DMA-025 DMA-045  
DMA-065(S25064); # Take MAT-021; # Take  
MAT-121(S26399); # Take MAT-035; # Take  
MAT-071(S25141); # Take 1 courses; From rule  
RMINP3; # Take BSP-4003(S25168); From rule  
BSPMINP3; # Take MAT-003; From rule RMINP3;

# MAT172 - Precalculus Trigonometry

## Overview

### Course 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.

**Course ID**  
**S23935**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**4**

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**4**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

**State prerequisite**

**Type**  
**Prerequisite**

Take MAT-171

Take MAT-171(S25432);

# MAT175 - Precalculus

## Overview

### Course Description

This course provides an intense study of the topics which are fundamental to the study of calculus. Emphasis is placed on equations and inequalities, functions and their graphs, with special attention to polynomial, rational, exponential, logarithmic and trigonometric functions, and analytic trigonometry and geometry. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. \* Strongly recommend a minimum unweighted high school GPA of 3.0

### Course ID

S26404

### Credit Hours

Credit  
Hours  
5  
Minutes

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 4         | 4     |

### Billing Hours

Billing  
Hours  
5  
Minutes

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

### Simple Requisites

| Local Prerequisite |              |
|--------------------|--------------|
| Type               | Prerequisite |

Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040 DMA-050 DMA-060 DMA-070 DMA-080; # Take DMA-010 DMA-020 DMA-030 DMA-040 DMA-050 DMA-065; # Take DMA-010 DMA-020 DMA-030 DMA-045 DMA-060 DMA-070 DMA-080; # Take DMA-010 DMA-020 DMA-030 DMA-045 DMA-065; # Take DMA-025 DMA-040 DMA-050 DMA-060 DMA-070 DMA-080; # Take DMA-025 DMA-040 DMA-050 DMA-065; # Take DMA-025 DMA-045 DMA-060 DMA-070 DMA-080; # Take DMA-025 DMA-045 DMA-065; # Take MAT-021 # Take MAT-121; # Take MAT-035; # Take MAT-071; # Take 1 courses; From rule RMINP3 # Take BSP-4003; From rule BSPMINP3; # Take MAT-003; From rule RMINP3

Take 1 group; # Take DMA-010 DMA-020 DMA-030 DMA-040(S24983) DMA-050(S24984) DMA-060(S24985) DMA-070(S24987) DMA-080(S24988); # Take DMA-010 DMA-020 DMA-030 DMA-040(S24983) DMA-050(S24984) DMA-065(S25064); # Take DMA-010 DMA-020 DMA-030 DMA-045 DMA-060(S24985) DMA-070(S24987) DMA-080(S24988); # Take DMA-010 DMA-020 DMA-030 DMA-045 DMA-065(S25064); # Take DMA-025 DMA-040(S24983) DMA-050(S24984) DMA-060(S24985) DMA-070(S24987) DMA-080(S24988); # Take DMA-025 DMA-040(S24983) DMA-050(S24984) DMA-065(S25064); # Take DMA-025 DMA-045 DMA-060(S24985) DMA-070(S24987) DMA-080(S24988); # Take DMA-025 DMA-045 DMA-065(S25064); # Take MAT-021; # Take MAT-121(S26399); # Take MAT-035; # Take MAT-071(S25141); # Take 1 courses; From rule RMINP3; # Take BSP-4003(L27300); From rule BSPMINP3; # Take MAT-003; From rule RMINP3;

# MAT252 - Statistical Methods II

## Overview

### Course Description

This course is designed to provide a technology-based treatment of multiple sample inferential statistics. Emphasis is placed on two sample hypothesis tests and confidence intervals, linear and multiple regression, analysis of variance, experimental design, and non-parametric techniques. Upon completion, students should be able to draw statistical inferences and communicate results on multiple sample data taken from business and health, social, natural, and applied sciences.

Course ID  
S25063

### Credit Hours

Credit  
Hour  
s  
Min:  
4

### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take MAT-152

Take MAT-152(S24996);

MAT263 - Brief Calculus

Overview

Course 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.

Course ID

S26091

Credit Hours

Credit Hours  
4

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 2             | 2             |

Simple Requisites

State prerequisite

Type  
Prerequisite

Take One: MAT-171 or MAT-175

Take MAT-171(S25432) or MAT-175(S26068);

# MAT271 - Calculus I

## Overview

### Course 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. MAT 172 is the prerequisite for this course; however, a student may PLACE DIRECTLY into MAT 271 if the student has met at least one (1) of the following criteria within the past five (5) years: 1. A score of 2 or higher on the AP Calculus AB Exam. 2. A grade of C or higher in an AP Calculus course and an unweighted HS GPA of 3.0 or higher. 3. A score of 90 or higher on the ACCUPLACER College-Level Math (CLM) test. 4. A score of 46 or higher on the trigonometry section of the ACT Compass Math Placement Test. 5. A score of 580 or higher on the SAT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. 6. A score of 27 or higher on the ACT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. 7. A score of 560 or higher on the SAT Subject Test in Mathematics Level 2.

### Course ID

S26092

### Credit Hours

Credit  
Hours  
4

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |



Billing Hours

Billing  
Hours  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 2        | 2    |

MAT272 - Calculus II

Overview

Course 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.

Course ID  
S23940

Credit Hours

Credit  
Hours  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 3         | 3     |

Billing Hours

Billing  
Hours  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 2        | 2    |

Simple Requisites

|                                          |
|------------------------------------------|
| State prerequisite                       |
| Type Prerequisite                        |
| Take One: MAT-172 or MAT-175             |
| Take MAT-172(S23935) or MAT-175(S26068); |

Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |

Take MAT-271

Take MAT-271(S23939);

MAT273 - Calculus III

Overview

Course 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.

Course ID

S23941

Credit Hours

Credit Hours  
4

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

Billing Hours

Billing Hours  
4

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

Simple Requisites

State prerequisite

Type  
Prerequisite

Take MAT-272

# MAT280 - Linear Algebra

## Overview

### Course 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.

### Course ID

S23942

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |

Take MAT-271

Take MAT-271(S23939);

# MAT285 - Differential Equations

## Overview

### Course 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.

**Course ID**  
S23943

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
|--------------------|

**Type**  
**Prerequisite**

|                       |
|-----------------------|
| Take MAT-272          |
| Take MAT-272(S13612); |

# MEC111 - Machine Processes I

## Overview

### Course Description

This course introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment. Topics include use and care of tools, safety, measuring tools, and the basic setup and operation of common machine tools. Upon completion, students should be able to manufacture simple parts to specified tolerance.

**Course ID**  
S20654

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

# MEC130 - Mechanisms

## Overview

### Course 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.

**Course ID**  
S16429

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

# MEC145 - Manufacturing Materials I

## Overview

### Course Description

This course introduces a variety of manufacturing materials and common processing techniques. Emphasis is placed on the processing, testing, and application of materials such as wood, metals, plastics, ceramics, and composites. Upon completion, students should be able to demonstrate an understanding of fundamental engineering applications for a variety of materials, including their process capabilities and limitations.

**Course ID**  
S23498

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

# MEC231 - Computer-Aided Manufacturing I

## Overview

### Course 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.

Course ID  
S20658

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

Local Requistes

Type  
Corequisite

Take MAC-124 MAC-132

Take MAC-124 MAC-132(S22991);

# MEC232 - Computer-Aided Manufacturing II

## Overview

### Course 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.

Course ID  
S14320

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take MEC-231

Take MEC-231(S14280);

# MED110 - Orientation to Medical Assisting

## Overview

### Course Description

This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting.

**Course ID**  
**S11175**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**1**

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**1**

# MED116 - Introduction to Anatomy & Physiology

## Overview

### Course Description

This course introduces basic anatomy and physiology. Emphasis is placed on the relationship between body structure and function and the procedures common to health care. Upon completion, students should be able to identify body system components and functions relating this knowledge to the delivery of health care.

**Course ID**  
**S11160**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**4**

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**4**

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 2        | 2    |

# MED118 - Medical Law and Ethics

## Overview

### Course Description

This course covers legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed consent, and bioethical issues. Emphasis is placed on legal terms, professional attitudes, and the principles and basic concepts of ethics and laws involved in providing medical services. Upon completion, students should be able to meet the legal and ethical responsibilities of a multi-skilled health professional.

### Course ID

S11173

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 2       | 2         |      |

### Billing Hours

Billing  
Hours  
2

# MED120 - Survey of Medical Terminology

## Overview

### Course Description

This course introduces the vocabulary, abbreviations, and symbols used in the language of medicine. Emphasis is placed on building medical terms using prefixes, suffixes, and word roots. Upon completion, students should be able to pronounce, spell, and define accepted medical terms.

### Course ID

S12808

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 2       | 2         |      |

### Billing Hours

Billing  
Hours  
2



# MED121 - Medical Terminology I

## Overview

### Course 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.

**Course ID**  
**S12737**

### Credit Hours

**Credit Hours**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

**Billing Hours**  
**3**

# MED122 - Medical Terminology II

## Overview

### Course 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.

**Course ID**  
**S12833**

### Credit Hours

**Credit Hours**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

**Billing Hours**  
**3**

## Simple Requisites

Local Prerequisite Grade Requirement

Type  
Prerequisite

Take MED-121; Minimum grade C;  
Take MED-121; Minimum grade C;

State prerequisite

Type  
Prerequisite

Take MED-121

Take MED-121;

## MED130 - Administrative Office Procedures I

### Overview

#### Course Description

This course introduces medical office administrative procedures. Topics include appointment processing, written and oral communications, medical records, patient orientation, and safety. Upon completion, students should be able to perform basic administrative skills within the medical environment.

Course ID  
S10285

### Credit Hours

Credit  
Hours  
2  
s  
Min:  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

Billing  
Hours  
2  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

## MED131 - Administrative Office Procedures II

### Overview

#### Course Description

This course provides medical office procedures in both economic and management skills. Topics include physical plant maintenance, equipment and supplies, liability coverage, medical economics, and introductory insurance procedures. Upon completion, students should be able to manage the economics of the medical office and supervise personnel.

Course ID  
S16431

### Credit Hours

Credit  
Hours  
2  
s  
Min:  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

Billing  
Hours  
2  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

Local Prerequisite

Type  
Prerequisite

Take MED-130;

Take MED-130;

## MED136 - Preventive Health

### Overview

#### Course Description

This course provides information on public school and community health issues at all levels and preventive measures for prevalent diseases in the schools. Topics include healthy lifestyles, disease prevention, child psychology, and holistic health. Upon completion, students should be able to present information to all age levels concerning health issues, disease prevention, and attainment of healthy lifestyles.

#### Course ID

S21420

#### Credit Hours

Credit  
Hours  
5  
Min:  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

#### Billing Hours

Billing  
Hours  
5  
Min:  
2

## MED140 - Examining Room Procedures I

### Overview

#### Course Description

This course provides instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting with exams and treatment, patient education, preparation and administration of medications, EKG, vital signs, and medical emergencies. Upon completion, students should be able to demonstrate competence in exam room procedures.

#### Course ID

S11885

#### Credit Hours

Credit  
Hours  
5  
Min:  
5

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

#### Billing Hours

Billing  
Hours  
5  
Min:  
5

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 4       |          | 4    |

# MED150 - Laboratory Procedures I

## Overview

### Course Description

This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective tests, phlebotomy, screening and follow-up of test results, and OSHA/CLIA regulations. Upon completion, students should be able to perform basic lab tests/skills based on course topics.

**Course ID**  
**S10688**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 4              | 4        |

# MED260 - MED Clinical Practicum

## Overview

### Course Description

This course provides the opportunity to apply clinical, laboratory, and administrative skills in a medical facility. Emphasis is placed on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional.

**Course ID**  
**S22977**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  | Load       |
| 15             | 15         |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

# MED264 - Medical Assisting Overview

## Overview

### Course Description

This course provides an overview of the complete medical assisting curriculum. Emphasis is placed on all facets of medical assisting pertinent to administrative, laboratory, and clinical procedures performed in the medical environment. Upon completion, students should be able to demonstrate competence in the areas covered on the national certification examination for medical assistants.

**Course ID**  
S13592

### Credit Hours

**Credit Hours**  
**Min:**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
**Min:**  
2

# MED270 - Symptomatology Overview

## Course Description

This course covers the study of disease symptoms and the appropriate actions taken by medical assistants in a medical facility in relation to these symptoms. Emphasis is placed on interviewing skills and appropriate triage, preparing patients for procedures, and screening test results. Upon completion, students should be able to recognize how certain symptoms relate to specific diseases, recognize emergency situations, and take appropriate actions.

**Course ID**  
S11862

### Credit Hours

**Credit Hours**  
**Min:**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
**Min:**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# MED272 - Drug Therapy

## Overview

### Course Description

This course focuses on major drug groups, including their side effects, interactions, methods of administration, and proper documentation. Emphasis is placed on the theory of drug administration. Upon completion, students should be able to identify, spell, recognize side effects of, and document the most commonly used medications in a physician's office.

### Course ID

S16433

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# MED274 - Diet Therapy/ Nutrition

## Overview

### Course Description

This course introduces the basic principles of nutrition as they relate to health and disease. Topics include basic nutrients, physiology, dietary deficiencies, weight management, and therapeutic nutrition in wellness and disease. Upon completion, students should be able to interpret clinical and dietary data and provide patient counseling and education.

### Course ID

S11835

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# MED276 - Patient Education

## Overview

### Course Description

This course is designed to provide communication skills, basic education principles, and knowledge of available community resources and to apply this knowledge to the clinical setting. Emphasis is placed on identifying appropriate community resources, developing patient education materials, and perfecting written and oral communication skills. Upon completion, students should be able to instruct, communicate effectively, and act as a liaison between the patient and community agencies.

**Course ID**  
S11808

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

# MHA140 - Introduction to Mental Health

## Overview

### Course Description

This course provides a comprehensive overview of mental health and wellness and the roles, duties, and ethical aspects of providing mental health services. Topics include the history of mental health services, common mental health challenges, professional qualifications, and current trends. Upon completion, students should be able to discuss the impact of mental health, examine various treatment settings, and analyze the requirements for providing mental health services in public, private, nonprofit, and community environments.

**Course ID**  
S26359

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# MHA150 - Mental Health Interventions

## Overview

### Course Description

This course provides exposure to different mental health treatment and intervention modalities. Topics include professional and self-help forms of intervention. Upon completion, students should be able to apply culturally competent mental health intervention principles to individuals and groups in a variety of treatment settings.

**Course ID**  
S26360

### Credit Hours

**Credit Hours**  
3

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>3</b>         | <b>3</b>     |

### Billing Hours

**Billing Hours**  
3

# MHA155 - Psychological Assessment

## Overview

### Course Description

This course covers psychological assessment. Emphasis is placed on different types of psychological tests. Upon completion, students should be able to recognize and understand the purpose of various psychological tests.

**Course ID**  
S26361

### Credit Hours

**Credit Hours**  
3

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>3</b>         | <b>3</b>     |

### Billing Hours

**Billing Hours**  
3



# MHA238 - Psychopathology

## Overview

### Course Description

This course examines the development and use of DSM/ICD in the mental health setting to establish a common language. Emphasis is placed on history, terminology, and assessment practices associated with the DSM/ICD in the treatment of psychological disorders. Upon completion, students should be able to explain the core vocabulary of treatment approaches and their applications.

### Course ID

S26362

### Credit Hours

Credit  
Hours  
3  
Min:  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# MHA240 - Advocacy

## Overview

### Course Description

This course covers the roles and duties of the individual and community advocate. Topics include treatment planning, needs assessment, referral procedures, and follow-up and integration of services. Upon completion, students should be able to effectively advocate for the care of the whole person and community.

### Course ID

S26363

### Credit Hours

Credit  
Hours  
3  
Min:  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# MKT120 - Principles of Marketing

## Overview

### Course 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.

**Course ID**  
S24159

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# MKT220 - Advertising and Sales Promotion

## Overview

### Course 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.

**Course ID**  
S24161

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# MKT221 - Consumer Behavior Overview

## Course Description

This course is designed to describe consumer behavior as applied to the exchange processes involved in acquiring, consuming, and disposing of goods and services. Topics include an analysis of basic and environmental determinants of consumer behavior with emphasis on the decision-making process. Upon completion, students should be able to analyze concepts related to the study of the individual consumer.

Course ID  
S12308

## Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

## Billing Hours

Billing  
Hours  
3

## Simple Requisites

| Local Prerequisite    |
|-----------------------|
| Type<br>Prerequisite  |
| Take BUS-110          |
| Take BUS-110(S24149); |

# MKT223 - Customer Experience Overview

## Course 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.

Course ID  
S26218

## Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

## Billing Hours

Billing  
Hours  
3

# MKT224 - International Marketing

## Overview

### Course Description

This course covers the basic concepts of international marketing activity and theory. Topics include product promotion, placement, and pricing strategies in the international marketing environment. Upon completion, students should be able to demonstrate a basic understanding of the concepts covered.

**Course ID**  
S12374

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 3                      | 3            |

### Billing Hours

**Billing Hours**  
3

# MKT225 - Marketing Research Overview

### Course Description

This course provides information for decision making by providing guidance in developing, analyzing, and using data. Emphasis is placed on marketing research as a tool in decision making. Upon completion, students should be able to design and conduct a marketing research project and interpret the results.

**Course ID**  
S24162

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 3                      | 3            |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

**State prerequisite**  
**Type**  
**Prerequisite**

**Take MKT-120**

Take MKT-120(S24159);

# MKT227 - Marketing Applications

## Overview

### Course Description

This course extends the study of diverse marketing strategies. Emphasis is placed on case studies and small-group projects involving research or planning. Upon completion, students should be able to effectively participate in the formulation of a marketing strategy.

**Course ID**  
S24163

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

| Local Prerequisite                            |
|-----------------------------------------------|
| Type                                          |
| Prerequisite                                  |
| Take MKT-120, MKT-220, MKT-221;               |
| Take MKT-120(S24159) MKT-220(S24161) MKT-221; |

# MKT232 - Social Media Marketing

## Overview

### Course Description

This course is designed to build students' social media marketing skills by utilizing projects that give students hands on experience implementing social media marketing strategies. Topics include integrating different social media technologies into a marketing plan, creating social media marketing campaigns, and applying appropriate social media tools. Upon completion, students should be able to use social media technologies to create and improve marketing efforts for businesses.

**Course ID**  
S26219

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# MLT110 - Introduction to MLT

## Overview

### Course Description

This course introduces all aspects of the medical laboratory profession. Topics include health care/ laboratory organization, professional ethics, basic laboratory techniques, safety, quality assurance, and specimen collection. Upon completion, students should be able to demonstrate a basic understanding of laboratory operations and be able to perform basic laboratory skills.

**Course ID**  
S12410

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

# MLT111 - Urinalysis & Body Fluids

## Overview

### Course Description

This course introduces the laboratory analysis of urine and body fluids. Topics include physical, chemical, and microscopic examination of the urine and body fluids. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting urinalysis and body fluid tests.

**Course ID**  
S12518

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

# MLT115 - Laboratory Calculations

## Overview

### Course Description

This course is designed to present mathematical operations used in the medical laboratory. Topics include use of basic math processes, systems of measurement, conversion factors, solutions, and dilutions. Upon completion, students should be able to solve practical problems in the context of the medical laboratory.

**Course ID**  
S12514

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
2

# MLT120 - Hematology/Hemostasis I

## Overview

### Course Description

This course introduces the theory and technology used in analyzing blood cells and the study of hemostasis. Topics include hematology, hemostasis, and related laboratory testing. Upon completion, students should be able to demonstrate theoretical comprehension of hematology/hemostasis, perform diagnostic techniques, and correlate laboratory findings with disorders.

**Course ID**  
S13505

### Credit Hours

**Credit Hours**  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

# MLT126 - Immunology and Serology

## Overview

### Course Description

This course introduces the immune system and response and basic concepts of antigens, antibodies, and their reactions. Emphasis is placed on basic principles of immunologic and serodiagnostic techniques and concepts of cellular and humoral immunity in health and disease. Upon completion, students should be able to demonstrate theoretical comprehension and application in performing and interpreting routine immunologic and serodiagnostic procedures.

**Course ID**  
S13486

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

# MLT127 - Transfusion Medicine

## Overview

### Course Description

This course introduces the blood group systems and their applications in transfusion medicine. Emphasis is placed on blood bank techniques including blood grouping and typing, pretransfusion testing, donor selection and processing, and blood component preparation and therapy. Upon completion, students should be able to demonstrate theoretical comprehension and application in performing/interpreting routine blood bank procedures and recognizing/resolving common problems.

**Course ID**  
S13522

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 3       |          | 3    |



# MLT130 - Clinical Chemistry I

## Overview

### Course Description

This course introduces the quantitative analysis of blood and body fluids and their variations in health and disease. Topics include clinical biochemistry, methodologies, instrumentation, and quality control. Upon completion, students should be able to demonstrate theoretical comprehension of clinical chemistry, perform diagnostic techniques, and correlate laboratory findings with disorders.

**Course ID**  
S12376

### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# MLT140 - Introduction to Microbiology

## Overview

### Course Description

This course introduces basic techniques and safety procedures in clinical microbiology. Emphasis is placed on the morphology and identification of common pathogenic organisms, aseptic technique, staining techniques, and usage of common media. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting basic clinical microbiology procedures.

**Course ID**  
S14122

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# MLT217 - Professional Issues

## Overview

### Course Description

This course surveys professional issues in preparation for career entry. Emphasis is placed on work readiness and theoretical concepts in microbiology, immunohematology, hematology, and clinical chemistry. Upon completion, students should be able to demonstrate competence in career entry-level areas and be prepared for the national certification examination.

Course ID  
S12112

### Credit Hours

Credit  
Hours  
3  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Billing Hours

Billing  
Hours  
3  
Min:  
1

# MLT220 - Hematology/ Hemostasis II

## Overview

### Course Description

This course covers the theories and techniques used in the advanced analysis of human blood cells and hemostasis. Emphasis is placed on the study of hematologic disorders, abnormal cell development and morphology, and related testing. Upon completion, students should be able to demonstrate a theoretical comprehension and application of abnormal hematology and normal and abnormal hemostasis.

Course ID  
S10838

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

# MLT230 - Clinical Chemistry II

## Overview

### Course Description

This course is designed to supplement the biochemical and physiologic theory presented in MLT 130. Emphasis is placed on special chemistry techniques and methodologies. Upon completion, students should be able to recognize and differentiate technical and physiological causes of unexpected test results.

**Course ID**  
S13092

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Simple Requisites

|                    |              |
|--------------------|--------------|
| State prerequisite |              |
| Type               | Prerequisite |
| Take MLT-130       |              |
| Take MLT-130;      |              |

# MLT240 - Special Clinical Microbiology

## Overview

### Course Description

This course is designed to introduce special techniques in clinical microbiology. Emphasis is placed on advanced areas in microbiology. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting specialized clinical microbiology procedures.

**Course ID**  
S10388

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Simple Requisites

|                    |              |
|--------------------|--------------|
| State prerequisite |              |
| Type               | Prerequisite |
| Take MLT-140       |              |
| Take MLT-140;      |              |

# MLT254 - MLT Practicum I

## Overview

### Course Description

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations.

### Course ID

S11401

### Credit Hours

Credit  
Hours  
4

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 12             | 12    |

### Billing Hours

Billing  
Hours  
4

# MLT266 - MLT Practicum II

## Overview

### Course Description

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations.

### Course ID

S11220

### Credit Hours

Credit  
Hours  
6

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 18             | 18    |

### Billing Hours

Billing  
Hours  
6

# MLT276 - MLT Practicum III

## Overview

### Course Description

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations.

### Course ID

S12851

### Credit Hours

Credit  
Hours  
6

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 18             | 18    |

### Billing Hours

Billing  
Hours  
6

# MLT280 - Special Practice Lab

## Overview

### Course Description

This course provides additional medical laboratory experience. Emphasis is placed on laboratory skills and techniques. Upon completion, students should be able to demonstrate proficiency in laboratory skills and techniques.

### Course ID

S10243

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1

# MNT110 - Introduction to Maintenance Procedures

## Overview

### Course 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.

**Course ID**  
S23528

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

# MRI210 - MRI Physics and Equipment

## Overview

### Course Description

This course covers the physical principles of image formation, data acquisition, and image processing in magnetic resonance imaging. Emphasis is placed on instrumentation, fundamentals, pulse sequences, data manipulation, imaging parameters, options, and their effects on image quality. Upon completion, students should be able to understand the principles behind image formation, data acquisition, and image processing in magnetic resonance imaging.

**Course ID**  
S11809

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

# MRI211 - MRI Procedures

## Overview

### Course Description

This course covers patient care, magnetic field safety, cross-sectional anatomy, contrast media, and scanning procedures in magnetic resonance imaging. Emphasis is placed on patient assessment and monitoring, safety precautions, contrast agents' use, methods of data acquisition, and identification of cross-sectional anatomy. Upon completion, students should be able to integrate all facets of imaging procedures in magnetic resonance imaging.

**Course ID**  
S11912

### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 4             | 4               |       |

# MRI231 - MRI Clinical Practicum

## Overview

### Course Description

This course provides experience in the computed tomography clinical setting. Emphasis is placed on patient care and positioning, scanning procedures, and image production in magnetic resonance imaging. Upon completion, students should be able to assume a variety of duties and responsibilities within the magnetic resonance clinical environment.

**Course ID**  
S13422

### Credit Hours

**Credit Hours**  
11

| Name          | Clinical Hours | Code  |
|---------------|----------------|-------|
|               |                | CLINC |
| Contact Hours | Load           |       |
| 33            | 33             |       |

# MRN121 - Marine Engines

## Overview

### Course Description

This course covers two and four cycle diesel engines that are used for marine vessel propulsion. Emphasis is placed on construction, design, cooling systems, lubrication systems, and air-intake systems. Upon completion, students should be able to test, troubleshoot, diagnose and repair marine engine systems.

Course ID  
S23442

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 6        | 6    |

### Simple Requisites

Prerequisite  
Type  
Prerequisite

Take TRN-110  
Take TRN-110(S23455);

Recommended concurrent or previous courses

Type  
Corequisite

Take HET-110  
Take HET-110(S12126);

# MRN147 - Marine Power Trains

## Overview

### Course Description

This course covers the principles and function of marine power trains. Emphasis is placed on marine gears, drive lines, gear reduction, and installation aboard vessels. Upon completion, students should be able to test, service, and trouble shoot marine power trains.

Course ID  
S23443

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 6        | 6    |



# MRN150 - Advanced Marine Electrical Systems

## Overview

### Course Description

This course covers the skills necessary to wire 12-volt direct current and 120-volt alternating current electrical systems found on modern boats and marine applications. Topics include wirer sizing, batteries, wire harnesses, distribution panels, electronic component installation, and electrical system troubleshooting, including generators operation and disassembly. Upon completion students should be able to diagnose, test, and repair advanced electrical systems in marine applications and boats.

**Course ID**  
S23444

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name           | Classroom   | Code  |
|----------------|-------------|-------|
| Hours          |             | CLASS |
| <b>Contact</b> |             |       |
| <b>Hours</b>   | <b>Load</b> |       |
| 2              | 2           |       |

### Billing Hours

**Billin**  
**g**  
**Hour**  
**s**  
**Min:**  
**5**

| Name           | Lab/Shop    | Code |
|----------------|-------------|------|
| Hours          |             | LAB  |
| <b>Contact</b> |             |      |
| <b>Hours</b>   | <b>Load</b> |      |
| 9              | 9           |      |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take TRN-120

Take TRN-120(S23456);

# MSC110 - Training Cruise I

## Overview

### Course Description

This course covers the skills necessary to live and work safely aboard oceangoing research vessels. Emphasis is placed on the skills necessary for the safe operation of biological sampling equipment. Upon completion, students should be able to safely live and work aboard an oceanographic research vessel conducting offshore scientific operations.

**Course ID**  
S21403

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**1**

| Name           | Lab/Shop    | Code |
|----------------|-------------|------|
| Hours          |             | LAB  |
| <b>Contact</b> |             |      |
| <b>Hours</b>   | <b>Load</b> |      |
| 3              | 3           |      |

### Billing Hours

**Billin**  
**g**  
**Hour**  
**s**  
**Min:**  
**1**

# MSC112 - Training Cruise II

## Overview

### Course Description

This course covers the skills necessary to live and work safely aboard oceangoing research vessels. Emphasis is placed on maintaining a 24-hour navigation log and weather watch and safely conducting over-the-side sampling operations. Upon completion, students should be able to maintain a weather log, plot a cruise track, and safely use sampling gear.

### Course ID

S21404

### Credit Hours

Credit  
Hours  
1  
Contact  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 3        | 3    |

### Billing Hours

Billing  
Hours  
1  
Contact  
Min:  
1

# MSC114 - Training Cruise III

## Overview

### Course Description

This course covers the skills necessary to live and work safely aboard oceangoing research vessels. Emphasis is placed on utilizing the navigational and hydrographical techniques needed to conduct an offshore bathymetric survey. Upon completion, students should be able to accurately navigate a vessel, gather bathymetric data, and prepare a depth contour plot of a predetermined quadrant.

### Course ID

S24091

### Credit Hours

Credit  
Hours  
1  
Contact  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 3        | 3    |

### Billing Hours

Billing  
Hours  
1  
Contact  
Min:  
1

## Simple Requisites

State prerequisite

Type  
Prerequisite

Take One: MSC-110 or MSC-112

Take MSC-110(S21403) or MSC-112(S21404);

# MSC122 - Boat Handling/Seamanship

## Overview

### Course Description

This course covers the skills of boat handling, the practice of seamanship, and safety and survival in the marine environment. Topics include safe boat handling, seamanship under adverse conditions, fire fighting, man overboard rescue, PFDs, EPIRBs, distress signals, lifeboats, and life rafts. Upon completion, students should be able to competently operate small powerboats and demonstrate proficiency in the use of marine fire fighting and lifesaving equipment.

**Course ID**  
S23388

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 2             | 2               |      |       |

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
|               |                |      |     |
| Contact Hours | Load           |      |     |
| 3             | 3              |      |     |

# MSC124 - Industrial Skills

## Overview

### Course Description

This course offers a practical approach to the mechanical and technical skills needed by technicians in a variety of marine-related jobs. Topics include industrial safety, measurement systems, hand and power tools, fasteners, corrosion protection, project design, and construction and cost estimation. Upon completion, students should be able to safely use hand and/or power tools and understand a variety of measurement and pricing systems.

**Course ID**  
S23389

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 1             | 1               |      |       |

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
|               |                |      |     |
| Contact Hours | Load           |      |     |
| 4             | 4              |      |     |

# MSC126 - Marine Engines

## Overview

### Course Description

This course covers fundamental theory, troubleshooting, and maintenance of marine engines and related equipment, especially outboards. Emphasis is placed on maintenance and operational procedures, including corrosion control, lubrication, propellers, carburetors, two-cycle theory, magneto ignition, batteries, starters, alternators, and trailers. Upon completion, students should be able to understand how a marine engine and related components work, perform minor repairs, and properly maintain them.

### Course ID

S13687

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# MSC132 - Fishing Gear Technology I

## Overview

### Course Description

This course introduces modern rope seamanship and fishing gear theory, design, repair, and analysis as it relates to fisheries research. Emphasis is placed on various practical knots, rope splicing, marine hardware, biological sampling gear classifications, and the basics of net construction, repair, and design. Upon completion, students should be able to implement marlin spike skills; repair netted material; and identify, design, and construct various types of biological entrapment and entanglement gear.

### Course ID

S23390

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

# MSC134 - Fishing Gear Technology II

## Overview

### Course Description

This course offers further experience and instruction in fishing gear theory and design and the collection and recording of biological data. Emphasis is placed on the general skills needed to design, construct, and repair complex sampling gear and be employed as a fisheries technician. Upon completion, students should be able to understand and apply fishing gear design and construction techniques and collect, compile, and record biological data.

**Course ID**  
S12028

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |

Take MSC-132  
Take MSC-132(S12080);

# MSC150 - Marine Navigation

## Overview

### Course Description

This course provides training in marine piloting and electronic navigation techniques. Topics include use of charts, instruments, navigational aids, compasses, nautical publications, radar, GPS, LORAN, and depth sounders, with an emphasis on plotting techniques. Upon completion, students should be able to demonstrate competence in the safe navigation of vessels utilizing and interpreting information obtained from navigational aids.

**Course ID**  
S23391

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# MSC152 - Marine Instrumentation

## Overview

### Course Description

This course introduces the various types of oceanographic instrumentation used for the collection of data and samples by the oceanographic community. Emphasis is placed on data recording procedures, proper operation, safe handling, and calibration, maintenance, and repair of instruments. Upon completion, students should be able to safely and correctly use the instruments covered to conduct accurate field measurements.

Course ID  
S13363

### Credit Hours

Credit  
Hours  
3  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   |           | 1     |

### Billing Hours

Billing  
Hours  
3  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   |          | 2    |

# MSC160 - Oceanography

## Overview

### Course Description

This course provides a general description of the geology, chemistry, and physics of the oceans. Topics include a history of oceanography, bathymetry, plate tectonics, seawater chemistry and physics, atmospheric circulation, currents, waves, tides, sedimentation, and coastal geology. Upon completion, students should be able to describe bathymetric features, the chemistry and physics of seawater, atmospheric and ocean circulations, marine sediments, and coastal processes.

Course ID  
S25580

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# MSC172 - Marine Biology

## Overview

### Course Description

This course utilizes field trips to the beach, salt marsh, and other habitats to study marine animals and plants in their natural communities. Topics include divisions of the marine environment, distribution of life in the ocean, and the interrelationships of marine organisms in various habitats. Upon completion, students should be able to scientifically identify various marine species and describe the role they fill in their biological communities.

Course ID  
S11611

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

# MSC174 - Marine Invertebrate Zoology

## Overview

### Course Description

This course covers the behavior and classification of marine invertebrates. Topics include identification, feeding behavior, reproduction, and symbiotic relationships of marine invertebrates. Upon completion, students should be able to identify and classify marine invertebrates and demonstrate an understanding of their basic anatomy and physiology.

Course ID  
S11590

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

# MSC180 - Water Analysis

## Overview

### Course Description

This course covers the practical analysis of water samples with an emphasis on marine-oriented techniques and procedures. Topics include basic laboratory skills, microbiology techniques, and the use of wet chemistry and instruments to quantify chemically and biologically important parameters. Upon completion, students should be able to culture microbes, and measure pH, turbidity, dissolved oxygen, and nutrients in natural water samples.

**Course ID**  
S23393

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# MSC210 - Marine Environmental Sampling and Analysis

## Overview

### Course Description

This course introduces the fundamental principles used in the environmental assessment process and their applicability to environmental laws and policies. Emphasis is placed on characterizing sampling sites; understanding contaminant transport; developing and following sampling plans for the collection of various media; documenting field activities; following proper lab techniques and safety; and interpreting lab reports. Upon completion, students should be able to describe significant environmental regulations applicable to the marine environment, classes and typical sources of contaminants, and current sampling and laboratory techniques and quality control measures.

**Course ID**  
S24295

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |



# MSC216 - Training Cruise IV

## Overview

### Course Description

This course covers the skills necessary to live and work safely aboard oceangoing research vessels. Emphasis is placed on conducting standard hydrographic stations using various oceanographic samples. Upon completion, students should be able to set up and conduct a hydrographic station and collect accurate data using various types of marine instrumentation.

### Course ID

S24092

### Credit Hours

Credit  
Hours  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take One Set: Set 1: MSC-110, MSC-114, and MSC-152 Set 2: MSC-112, MSC-114, and MSC-152

Take 1 group; # Take MSC-110(S21403)

MSC-114(S24091) MSC-152; # Take  
MSC-112(S21404) MSC-114(S24091) MSC-152;

# MSC218 - Training Cruise V

## Overview

### Course Description

This course covers the skills necessary to live and work safely aboard oceangoing research vessels. Emphasis is placed on conducting a broad range of oceanographic survey techniques, including chemical, meteorological, geological, physical, and biological surveys. Upon completion, students should be able to demonstrate competence in the skills required of a marine technician aboard an oceanographic or survey vessel.

**Course ID**  
S24093

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                                                                     |
|---------------------------------------------------------------------|
| State prerequisite                                                  |
| Type Prerequisite                                                   |
| Take One Set: Set 1: MSC-114 and MSC-152 Set 2: MSC-216 and MSC-152 |
| Take 1 group; # Take MSC-114(S24091) MSC-152;                       |

# Take MSC-216(S24092) MSC-152;

# MSC220 - Marine GIS

## Overview

### Course Description

This course introduces students to the software and data components of a Geographic Information System. Topics include data collection, management, and analysis, and the creation of marine-based GIS maps. Upon completion, students should be able to use GIS software in marine applications.

**Course ID**  
S25695

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

# MSC254 - Marine Data Processing

Take All: NET-125 and MSC-152

Take NET-125(S24501) MSC-152;

## Overview

### Course Description

This course introduces standard oceanographic procedures used to process and analyze oceanographic data. Emphasis is placed on the use of standard recording procedures and computer applications for processing and analyzing oceanographic data. Upon completion, students should be able to record and analyze oceanographic data using standard procedures along with computer-based applications.

Course ID  
S25696

### Credit Hours

Credit  
Hours  
Min:  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 3       | 3        |      |

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |

# MSC256 - Cartography/ Hydrography Surveying

## Overview

### Course Description

This course covers basic surveying and cartography techniques as they apply to marine research. Topics include topographic map and bathymetric chart basics, including symbols, contours, elevations, coordinate systems, and basic survey instruments, modeling, and field projects. Upon completion, students should be able to use topographic and bathymetric maps as a research tool and set up and conduct field surveys.

**Course ID**  
S11694

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

| Local Prerequisite |
|--------------------|
| Type Prerequisite  |

**Take NET-125 MSC-152**

Take NET-125(S24501) MSC-152;

### Recommended concurrent or previous courses

**Type**  
**Corequisite**

**Take MSC-254**

Take MSC-254(S11661);

# MSC276 - Marine Vertebrate Zoology

## Overview

### Course Description

This course covers the behavior and classification of marine fishes, reptiles, birds, and mammals. Topics include identification, feeding behavior, reproduction, migration, and other marine vertebrate characteristics. Upon completion, students should be able to identify marine vertebrates and demonstrate an understanding of the methods marine vertebrates use to survive in the ocean.

**Course ID**  
S23394

### Credit Hours

**Credit Hours**  
4

### Billing Hours

**Billing Hours**  
4

|                 |            |
|-----------------|------------|
| Name            |            |
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

|                |          |
|----------------|----------|
| Name           |          |
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# MUS110 - Music Appreciation

## Overview

### Course 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.

**Course ID**  
S13676

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

|                 |            |
|-----------------|------------|
| Name            |            |
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 3               | Load 3     |

# MUS111 - Fundamentals of Music

## Overview

### Course Description

This course is an introductory course for students with little or no music background. Emphasis is placed on music notation, rhythmic patterns, scales, key signatures, intervals, and chords. Upon completion, students should be able to demonstrate an understanding of the rudiments of music.

**Course ID**  
S16443

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# MUS112 - Introduction to Jazz

## Overview

### Course 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.

**Course ID**  
S13646

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# MUS113 - American Music

## Overview

### Course 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.

Course ID  
S13699

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# MUS114 - Introduction to World Music

## Overview

### Course Description

This course provides a basic survey of World Music. Emphasis is placed on non-traditional instruments, sources, and performing practices. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of World Music.

Course ID  
S25735

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# MUS121 - Music Theory I

## Overview

### Course 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.

**Course ID**  
S25120

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

| Local Corequisite   |
|---------------------|
| Type<br>Corequisite |
| Take MUS-125        |
| Take MUS-125;       |

# MUS122 - Music Theory II

## Overview

### Course 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.

**Course ID**  
S25121

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

| Local Corequisite   |
|---------------------|
| Type<br>Corequisite |
| Take MUS-126        |
| Take MUS-126;       |



State prerequisite

Type  
Prerequisite

Take MUS-121

Take MUS-121(S25120);

# MUS123 - Music Composition

## Overview

**Course Description**  
This course provides a study of elementary forms and traditional approaches to the organization of melody, harmony, rhythm, etc. in musical composition. Emphasis is placed on using musical notation to create new musical works.

**Course ID**  
S12023

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take One: MUS-111 or MUS-121

Take MUS-121(S12074) or MUS-111(S16443);

# MUS125 - Aural Skills I

## Overview

### Course 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.

**Course ID**  
S25116

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                       |
|-----------------------|
| Local Corequisite     |
| Type Corequisite      |
| Take MUS-121          |
| Take MUS-121(S25120); |

# MUS126 - Aural Skills II

## Overview

### Course 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.

**Course ID**  
S25117

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                   |
|-------------------|
| Local Corequisite |
| Type Corequisite  |
| Take MUS-122      |

Take MUS-122(S25121);

State prerequisite

Type

Prerequisite

Take MUS-125

Take MUS-125;

MUS131 - Chorus I

Overview

Course 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.

Course ID

S14027

Credit Hours

Credit  
Hours  
1  
s  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

Billing Hours

Billing  
Hours  
1  
s  
Min:  
1

MUS132 - Chorus II

Overview

Course 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.

Course ID

S13988

Credit Hours

Credit  
Hours  
1  
s  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

Billing Hours

Billing  
Hours  
1  
s  
Min:  
1

Simple Requisites

State prerequisite

Type

Prerequisite

Take MUS-131

Take MUS-131;

# MUS133 - Band I

## Overview

### Course Description

This course provides an opportunity for those who play a band instrument to gain experience playing in an ensemble. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

**Course ID**  
S14035

### Credit Hours

**Credit Hours**  
1

| Name          | Lab/Shop Hours | Code LAB |
|---------------|----------------|----------|
| Contact Hours | 2              | Load 2   |

### Billing Hours

**Billing Hours**  
1

# MUS134 - Band II

## Overview

### Course Description

This course is a continuation of MUS 133. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

**Course ID**  
S14007

### Credit Hours

**Credit Hours**  
1

| Name          | Lab/Shop Hours | Code LAB |
|---------------|----------------|----------|
| Contact Hours | 2              | Load 2   |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take MUS-133       |
| Take MUS-133;      |

# MUS135 - Jazz Ensemble I

## Overview

### Course Description

This course provides an opportunity for those who play an appropriate instrument to gain experience playing in a jazz ensemble. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

### Course ID

S14021

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

# MUS136 - Jazz Ensemble II

## Overview

### Course Description

This course is a continuation of MUS 135. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

### Course ID

S13994

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take MUS-135

Take MUS-135;

# MUS137 - Orchestra I

## Overview

### Course 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.

**Course ID**  
S14040

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Billing Hours

**Billing Hours**  
1

# MUS138 - Orchestra II

## Overview

### Course 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.

**Course ID**  
S14006

### Credit Hours

**Credit Hours**  
1

| Name     | Code |
|----------|------|
| Lab/Shop | LAB  |
| Hours    |      |
|          |      |
| Contact  | Load |
| Hours    |      |
| 2        | 2    |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take MUS-137       |
| Take MUS-137;      |

# MUS141 - Ensemble I

## Overview

### Course 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.

### Course ID

S13366

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

# MUS142 - Ensemble II

## Overview

### Course 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.

### Course ID

S13271

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |
| Take MUS-141       |
| Take MUS-141;      |

# MUS151 - Class Music I

## Overview

### Course 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.

### Course ID

S13815

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

# MUS152 - Class Music II

## Overview

### Course 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.

### Course ID

S13794

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-151         |
| Take MUS-151;        |



# MUS161 - Applied Music I

## Overview

### Course 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.

### Course ID

S16445

### Credit Hours

Credit Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

# MUS162 - Applied Music II

## Overview

### Course 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.

### Course ID

S16446

### Credit Hours

Credit Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take MUS-161

Take MUS-161(S16445);

# MUS170 - Business of Music

## Overview

### Course Description

This course introduces the basic elements of the music business. Topics include copyright law, musical arrangements and abridgements, recording and songwriting contracts, agents and managers, performing rights organizations, and the musician's union. Upon completion, students should be able to demonstrate an understanding of the basic elements of the music business.

### Course ID

S14169

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 3       | 3         |      |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# MUS173 - Opera Production I

## Overview

### Course Description

This course provides an applied laboratory study of the processes involved in the production of an opera. Topics include fundamental practices, principles, and techniques associated with producing operas of various musical periods with an emphasis on vocal technique. Upon completion, students should be able to participate in an assigned position in a college opera production.

### Course ID

S12842

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 9       | 9        |      |

# MUS174 - Opera Production II

## Overview

### Course Description

This course provides an applied laboratory study of the processes involved in the production of an opera. Topics include fundamental practices, principles, and techniques associated with producing operas of various musical periods with an emphasis on musical/language production. Upon completion, students should be able to participate in an assigned position in a college opera production.

**Course ID**  
S12761

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 9              | Load | 9   |

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take MUS-173       |
| Take MUS-173;      |

# MUS181 - Show Choir I

## Overview

### Course Description

This course provides students the initial training in basic competencies of dance/voice-based performances and to the nuances of preparation for such pop/jazz/theatre performances. Emphasis is placed on the introduction to, and subsequent development of, basic performance skills necessary for choreographed performance. Upon completion, students should be able to demonstrate the foundation competencies necessary to perform the assigned literature in various venues and under various professional conditions.

**Course ID**  
S20951

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**4**

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**4**

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 3              | Load | 3   |

# MUS182 - Show Choir II

## Overview

### Course Description

This course provides intermediate training in dance/voice-based performances and in the nuances of preparation for such pop/jazz/theatre performances. Emphasis is placed on continued development of skills necessary for professional group choral preparation and performance, as well as effective social interaction with a performance troupe. Upon completion, students should be able to demonstrate the intermediate competencies necessary to perform the assigned literature in various venues and under various professional conditions.

**Course ID**  
S21139

### Credit Hours

**Credit Hours**  
4

| Name                 | Classroom | Code        |
|----------------------|-----------|-------------|
| Hours                |           | CLASS       |
| <b>Contact Hours</b> |           | <b>Load</b> |
| 3                    |           | 3           |

### Billing Hours

**Billing Hours**  
4

| Name                 | Lab/Shop | Code        |
|----------------------|----------|-------------|
| Hours                |          | LAB         |
| <b>Contact Hours</b> |          | <b>Load</b> |
| 3                    |          | 3           |

### Simple Requisites

|                           |
|---------------------------|
| <b>State prerequisite</b> |
| <b>Type Prerequisite</b>  |

Take MUS-181  
Take MUS-181;

# MUS210 - History of Rock Music

## Overview

### Course Description

This course is a survey of Rock music from the early 1950's to the present. Emphasis is placed on musical groups, soloists, and styles related to the evolution of this idiom and on related historical and social events. Upon completion, students should be able to identify specific styles and to explain the influence of selected performers within their respective eras.

**Course ID**  
S20297

### Credit Hours

**Credit Hours**  
3

| Name                 | Classroom | Code        |
|----------------------|-----------|-------------|
| Hours                |           | CLASS       |
| <b>Contact Hours</b> |           | <b>Load</b> |
| 3                    |           | 3           |

### Billing Hours

**Billing Hours**  
3

# MUS211 - History of Country Music

## Overview

### Course Description

This course introduces the varied origins of country music and the commercialization of this art form. Emphasis is placed on historical, sociocultural, and stylistic factors related to country music and musicians. Upon completion, students should be able to identify specific styles and explain the influence of pop culture on the development of country music.

**Course ID**  
S13954

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# MUS212 - American Musical Theatre

## Overview

### Course Description

This course covers the origins and development of the musical from Show Boat to the present. Emphasis is placed on the investigation of the structure of the musical and its components through listening and analysis. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music.

**Course ID**  
S10054

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# MUS213 - Opera and Musical Theatre

## Overview

### Course Description

This course covers the origins and development of opera and musical theatre from the works of Claudio Monteverdi to the present. Emphasis is placed on how the structure and components of opera and musicals effect dramaturgy through listening examples and analysis. Upon completion, students should be able to demonstrate analytical and listening skills in understanding both opera and the musical.

Course ID  
S13978

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

Billing  
Hours  
3

# MUS214 - Electronic Music I

## Overview

### Course Description

This course provides an opportunity to study and explore various electronic instruments and devices. Emphasis is placed on fundamental MIDI applications and implementation, features and application of sequences, sound modules, digital keyboards, and Digital Audio Workstations (DAWs). Upon completion, students should be able to demonstrate proficiency by creation of appropriate musical projects using the equipment and techniques covered.

Course ID  
S25736

### Credit Hours

Credit  
Hours  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# MUS215 - Electronic Music II

## Overview

### Course Description

This course is a continuation of MUS 214. Emphasis is placed on advanced MIDI applications and implementation and continued work with sequencers, sound modules, and digital keyboards. Upon completion, students should be able to demonstrate proficiency by creation of appropriate musical projects using the equipment and techniques covered.

Course ID  
S13959

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 1       | 1         |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take MUS-214          |
| Take MUS-214(S13938); |

# MUS217 - Elementary Conducting

## Overview

### Course Description

This course introduces the basic patterns and skills for conducting instrumental and vocal groups. Emphasis is placed on conducting beat patterns, expressive gestures, fermatas, accents, tempos, and rehearsal techniques. Upon completion, students should be able to demonstrate the above skills by conducting vocal and/or instrumental groups.

Course ID  
S13967

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 1       | 1         |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take MUS-111          |
| Take MUS-111(S16443); |

# MUS221 - Music Theory III

## Overview

### Course 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.

### Course ID

S25122

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

**Local Corequisite**  
**Type**  
**Corequisite**

**Take MUS-225**  
Take MUS-225;

**State prerequisite**

**Type**  
**Prerequisite**

**Take MUS-122**  
Take MUS-122(S25121);



# MUS222 - Music Theory IV

## Overview

### Course 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.

### Course ID

S25123

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

Local Corequisite  
Type  
Corequisite

Take MUS-226

Take MUS-226;

State prerequisite

Type  
Prerequisite

Take MUS-221

Take MUS-221(S25122);

# MUS225 - Aural Skills III

## Overview

### Course 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.

### Course ID

S25118

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                   |
|-------------------|
| Local Corequisite |
|-------------------|

### Type Corequisite

Take MUS-221  
Take MUS-221(S25122);

### State prerequisite Type Prerequisite

Take MUS-126  
Take MUS-126;

# MUS226 - Aural Skills IV

## Overview

### Course 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.

**Course ID**  
S25119

### Credit Hours

**Credit**  
**t**  
**Hour**  
**s**  
**Min:**  
**1**

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

**Billin**  
**g**  
**Hour**  
**s**  
**Min:**  
**1**

### Simple Requisites

|                          |
|--------------------------|
| <b>Local Corequisite</b> |
| <b>Type</b>              |
| <b>Corequisite</b>       |

**Take MUS-222**

Take MUS-222(S25123);

**State prerequisite**

**Type**  
**Prerequisite**

**Take MUS-225**

Take MUS-225;

# MUS231 - Chorus III

## Overview

### Course 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.

Course ID  
S13853

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-132         |
| Take MUS-132;        |

# MUS232 - Chorus IV

## Overview

### Course 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.

Course ID  
S13907

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-231         |
| Take MUS-231;        |

# MUS233 - Band III

## Overview

### Course Description

This course is a continuation of MUS 134. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

Course ID  
S13863

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take MUS-134       |
| Take MUS-134;      |

# MUS234 - Band IV

## Overview

### Course Description

This course is a continuation of MUS 233. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

Course ID  
S13893

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take MUS-233       |
| Take MUS-233;      |

# MUS235 - Jazz Ensemble III

## Overview

### Course Description

This course is a continuation of MUS 136. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

Course ID  
S13840

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-136         |
| Take MUS-136;        |

# MUS236 - Jazz Ensemble IV

## Overview

### Course Description

This course is a continuation of MUS 235. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

Course ID  
S13896

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-235         |
| Take MUS-235;        |

# MUS237 - Orchestra III

## Overview

### Course 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.

### Course ID

S13868

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Billing Hours

Billing  
Hour  
s  
Min:  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-138         |
| Take MUS-138;        |

# MUS238 - Orchestra IV

## Overview

### Course 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.

### Course ID

S13878

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Billing Hours

Billing  
Hour  
s  
Min:  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-237         |
| Take MUS-237;        |

# MUS241 - Ensemble III

## Overview

### Course 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.

**Course ID**  
S11705

### Credit Hours

**Credit Hours**  
1

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 2              | Load | 2   |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take MUS-142       |
| Take MUS-142;      |

# MUS242 - Ensemble IV

## Overview

### Course 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.

**Course ID**  
S11736

### Credit Hours

**Credit Hours**  
1

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 2              | Load | 2   |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take MUS-241       |
| Take MUS-241;      |



# MUS251 - Class Music III

## Overview

### Course Description

This course is a continuation of MUS 152. 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.

Course ID  
S14199

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-152         |
| Take MUS-152;        |

# MUS252 - Class Music IV

## Overview

### Course Description

This course is a continuation of MUS 251. 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.

Course ID  
S14260

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-251         |
| Take MUS-251;        |

# MUS253 - Big Band

## Overview

### Course Description

This course includes the Big Band instrumentation of five saxes, four trumpets, four trombones, and four-piece rhythm section (bass, piano, drums, and guitar). Emphasis is placed on learning the repertoire specifically written for Big Band instrumentation. Upon completion, students should be able to demonstrate skills needed to participate in performance of Big Band music.

**Course ID**  
S14231

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**1**

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**1**

# MUS260 - Introduction to Music Education

## Overview

### Course 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.

**Course ID**  
S24336

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 2         | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

## Simple Requisites

State prerequisite

Type  
Prerequisite

Take MUS-121

Take MUS-121(S12074);

# MUS261 - Applied Music III

## Overview

### Course 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.

Course ID  
S16449

### Credit Hours

Credit  
Hours  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take MUS-162          |
| Take MUS-162(S16446); |

# MUS262 - Applied Music IV

## Overview

### Course 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.

Course ID  
S16450

### Credit Hours

Credit  
Hours  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hours  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take MUS-261          |
| Take MUS-261(S16449); |

# MUS265 - Piano Pedagogy

## Overview

### Course Description

This course introduces the basic methods and materials of piano instruction. Emphasis is placed on basic teaching techniques and piano literature appropriate for various skill levels. Upon completion, students should be able to identify and utilize appropriate teaching methods and materials for various levels of piano instruction.

Course ID  
S12624

### Credit Hours

Credit  
Hours  
1  
Minutes

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1  
Minutes

# MUS271 - Music History I

## Overview

### Course Description

This course is the first of a two-semester, in-depth study of music history. Emphasis is placed on the history and literature of music from Antiquity through the Baroque Period. Upon completion, students should be able to trace important musical developments and demonstrate an understanding of the composers' styles.

Course ID  
S13536

### Credit Hours

Credit  
Hours  
3  
Minutes

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Minutes

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take MUS-122          |
| Take MUS-122(S12005); |

# MUS272 - Music History II

## Overview

### Course Description

This course is the second of a two-semester, in-depth study of music history. Emphasis is placed on the history and literature of music from the Classical Period to the present. Upon completion, students should be able to trace important musical developments and demonstrate an understanding of the composers' styles.

### Course ID

S13580

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-271         |
| Take MUS-271;        |

# MUS273 - Opera Production III

## Overview

### Course Description

This course provides an applied laboratory study of the processes involved in the production of an opera. Topics include fundamental practices, principles, and techniques associated with producing operas of various musical periods with an emphasis on stagecraft. Upon completion, students should be able to participate in an assigned position in a college opera production.

### Course ID

S11993

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 9        | 9    |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-174         |
| Take MUS-174;        |

# MUS274 - Opera Production IV

## Overview

### Course Description

This course provides an applied laboratory study of the processes involved in the production of an opera. Topics include fundamental practices, principles, and techniques associated with producing operas of various musical periods with an emphasis on rehearsal and performance techniques. Upon completion, students should be able to participate in an assigned position in a college opera production.

Course ID  
S12029

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 9              | 9    |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-273         |
| Take MUS-273;        |

# MUS280 - Music for the Elementary Classroom

## Overview

### Course Description

This course covers the skills necessary for teaching music in the elementary school. Emphasis is placed on integrating music activities which are suitable for all ages of elementary students, including theory, performance, and conducting, into classroom activities. Upon completion, students should be able to utilize a variety of music activities in the elementary school classroom.

Course ID  
S12293

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take MUS-110         |
| Take MUS-110;        |

# MUS281 - Show Choir III

## Overview

### Course Description

This course provides advanced training in dance/voice-based performance and in the nuances of preparation for such pop/jazz/theatre performances. Emphasis is placed on development of advanced skills necessary for professional group choral performance and the technical skills necessary for the execution of such performances. Upon completion, students should be able to demonstrate the advanced competencies necessary to perform the assigned literature in various venues and under various professional conditions.

### Course ID

S21140

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

| State prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take MUS-182

Take MUS-182;

# MUS282 - Show Choir IV

## Overview

### Course Description

This course provides advanced training in dance/voice-based pop/jazz/theatre performances and is the capstone course in a four-semester series. Emphasis is placed on refinement of advanced skills necessary for professional group choral performance and the technical skills necessary for the execution of such performances. Upon completion, students should be able to demonstrate a mastery of the skills necessary to plan and perform the assigned literature in various venues and under various professional conditions.

### Course ID

S21141

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 3       | 3        |      |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take MUS-281

Take MUS-281;



# MUS283 - Varied Cultures/ Musical Performance

## Overview

### Course Description

This course provides an opportunity for music students to experience various musical cultures and to perform in public venues for audiences in these cultures. Emphasis is placed on the development of performance skills and on the musically historical information that characterizes the specific culture. Upon completion, students should be able to identify new culturally-based musical concepts and will have experiences in working with other cultures and in culturally-reflective environments.

### Course ID

S21142

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Simple Requisites

|                                            |
|--------------------------------------------|
| Recommended concurrent or previous courses |
| Type                                       |
| Corequisite                                |

|                                            |
|--------------------------------------------|
| Take MUS-181, MUS-182, MUS-281 and MUS-282 |
| Take MUS-181 MUS-182 MUS-281 MUS-282;      |

### State concurrent or previous courses

Type  
Corequisite

|                                                 |
|-------------------------------------------------|
| Take One: MUS-181, MUS-182, MUS-281, or MUS-282 |
| Take MUS-181 MUS-182 MUS-281 or MUS-282;        |

# NAS101 - Nurse Aide I

## Overview

### Course Description

This course includes basic nursing skills required to provide safe, competent personal care for individuals. Emphasis is placed on person-centered care, the aging process, communication, safety/emergencies, infection prevention, legal and ethical issues, vital signs, height and weight measurements, elimination, nutrition, basic restorative care/rehabilitation, dementia, mental health and end-of-life care. Upon completion, students should be able to demonstrate knowledge and skills and be eligible to test for listing on the North Carolina Nurse Aide I Registry.

### Course ID

S24247

### Credit Hours

Credit  
Hours  
6

|                 |               |
|-----------------|---------------|
| Name            |               |
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
6

|                |             |
|----------------|-------------|
| Name           |             |
| Lab/Shop Hours | Code<br>LAB |
| Contact Hours  | Load        |
| 4              | 4           |

|                |               |
|----------------|---------------|
| Name           |               |
| Clinical Hours | Code<br>CLINC |

|               |      |
|---------------|------|
| Contact Hours | Load |
| 3             | 3    |

# NAS102 - Nurse Aide II

## Overview

### Course Description

This course provides training in Nurse Aide II tasks. Emphasis is placed on the role of the Nurse Aide II, sterile technique and specific tasks such as urinary catheterization, wound care, respiratory procedures, ostomy care, peripheral IV assistive activities, and alternative feeding methods. Upon completion, students should be able to demonstrate knowledge and skills and safe performance of skills necessary to be eligible for listing on the North Carolina Nurse Aide II Registry.

### Course ID

S24248

### Credit Hours

Credit  
Hours  
6  
Min:  
6

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
6  
Min:  
6

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |

| Contact Hours | Load |
|---------------|------|
| 6             | 6    |

## Simple Requisites

### State prerequisite

Type  
Prerequisite

Take NAS-101  
Take NAS-101(S24247);

# NAS103 - Home Health Care Nurse Aide

## Overview

### Course Description

This course provides advanced training for the currently listed Nurse Aide I enhancing specific skills needed when working in the home care setting. Topics include person-centered care, nutrition, hydration, patient and personal safety, mental health, dementia, behavioral challenges, pain management, palliative care, and stress management. Upon completion, students are eligible for listing as a home care nurse aide with the North Carolina Nurse Aide Registry.

### Course ID

S24249

### Credit Hours

Credit  
Hours  
6

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 4       |           | 4     |

### Billing Hours

Billing  
Hours  
6

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

### Simple Requisites

State prerequisite  
Type  
Prerequisite

Take NAS-111

Take NAS-111;

# NAS111 - Nurse Aide I

## Overview

### Course Description

This course includes basic nursing skills required to provide safe, competent personal care for individuals. Emphasis is placed on person-centered care, the aging process, communication, safety/emergencies, infection prevention, legal and ethical issues, vital signs, height and weight measurements, elimination, nutrition, basic restorative care/rehabilitation, dementia, mental health and end-of-life care. Upon completion, students should be able to demonstrate knowledge and skills and be eligible to test for listing on the North Carolina Nurse Aide I Registry.

### Course ID

S26782

### Credit Hours

Credit  
Hours  
6

|                 |               |
|-----------------|---------------|
| Name            |               |
| Classroom Hours | Code<br>CLASS |
| Contact Hours   | Load          |
| 3               | 3             |

### Billing Hours

Billing  
Hours  
6

|                |               |
|----------------|---------------|
| Name           |               |
| Clinical Hours | Code<br>CLINC |
| Contact Hours  | Load          |
| 3              | 3             |

|                |             |
|----------------|-------------|
| Name           |             |
| Lab/Shop Hours | Code<br>LAB |

|               |      |
|---------------|------|
| Contact Hours | Load |
| 4             | 4    |

# NAS112 - Nurse Aide II

## Overview

### Course Description

This course provides training in Nurse Aide II tasks. Emphasis is placed on the role of the Nurse Aide II, sterile technique and specific tasks such as urinary catheterization, wound care, respiratory procedures, ostomy care, peripheral IV assistive activities, and alternative feeding methods. Upon completion, students should be able to demonstrate knowledge and skills and safe performance of skills necessary to be eligible for listing on the North Carolina Nurse Aide II Registry.

### Course ID

S26783

### Credit Hours

Credit  
Hour  
s  
Min:  
6

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
6

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |

| Contact Hours | Load |
|---------------|------|
| 6             | 6    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take NAS-111;  
Take NAS-111;

# NDT110 - Neuroscience/ Pathological Conditions

## Overview

### Course Description

This course covers the anatomy and physiology of the nervous system as well as those disease processes which affect nervous system components. Topics include anatomy, physiology, and pathology of the neuron, brain, spinal cord, peripheral nerves, and the special senses. Upon completion, students should be able to understand the structure and function of the nervous system and how this structure/function is affected by specific diseases.

**Course ID**  
S26241

### Credit Hours

**Credit  
Hours**  
**Min:**  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 4               | 4          |

### Billing Hours

**Billing  
Hours**  
**Min:**  
4

# NDT111 - Laboratory Management

## Overview

### Course Description

This course provides the skills and knowledge necessary to effectively manage and/or function as a team player in an electroneurodiagnostics department. Topics include the role of an effective manager, the role of a team player, techniques for scheduling, record keeping/storage, and creation/implementation of department policies. Upon completion, students should be able to understand those skills necessary to manage an electroneurodiagnostics department, both independently and as a team worker.

**Course ID**  
S26243

### Credit Hours

**Credit  
Hours**  
**Min:**  
1

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 1               | 1          |

### Billing Hours

**Billing  
Hours**  
**Min:**  
1

# NDT111A - NDT Laboratory Basics

## Overview

### Course Description

This course is designed to be offered as a supplemental lab for the EDT 111 course. Emphasis is placed on interview skills, system of electrode placement, and the role of effective communication in the EDT department. Upon completion, student should be able to demonstrate basic competencies in preparation for performing electroneurodiagnostic testing.

**Course ID**  
S26244

### Credit Hours

**Credit Hours**  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type                                 |
| Corequisite                          |
| Take NDT-111;                        |
| Take NDT-111;                        |

# NDT112 - Instrument/Record Methods

## Overview

### Course Description

This course covers theories of electrode placement, various instrumentation components used in neurological testing, and optimal recording techniques based on patient status. Topics include the International 10-20 System of electrode placement, electrode types/applications, electronics applicable to neurological testing, instrument controls, montages, and polarity/localization. Upon completion, students should be able to understand the theories underlying optimal utilization of electrodes and instrumentation for neurological testing.

**Course ID**  
S26245

### Credit Hours

**Credit Hours**  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

**Billing Hours**  
3



# NDT113 - Clinical Correlates

## Overview

### Course Description

This course covers normal and abnormal neurological test findings associated with the anatomy/physiology/pathology covered in NDT 110. Topics include normal and abnormal neurological test results, artifacts, and activation procedures utilizing teaching records from affiliated laboratories. Upon completion, students should be able to identify patterns and artifacts on neurological tests in order that optimal recording strategies may be utilized.

### Course ID

S26246

### Credit Hours

Credit  
Hours  
3  
Minutes  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Minutes  
3

# NDT114 - Special Procedures

## Overview

### Course Description

This course provides a basic understanding of special testing procedures used in neurological diagnosis. Topics include foundations of evoked potentials, nerve conduction studies, operating room monitoring, ambulatory EEGs, long-term video monitoring, polysomnography, and various radiological procedures. Upon completion, students should be able to demonstrate an understanding of the principles of various special procedures used in neurological diagnosis.

### Course ID

S26247

### Credit Hours

Credit  
Hours  
3  
Minutes  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Minutes  
3

# NDT115 - NDT Laboratory Practice

## Overview

### Course Description

This course provides a practical application of theories covered in previous EDT courses. Emphasis is placed on practical skill development in neurological testing, appropriate patient rapport, infection control, and electrical safety guidelines, using mock situations. Upon completion, students should be able to conduct optimal neurological testing in mock situations.

**Course ID**  
S26248

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 6              | 6        |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

# NDT117 - EEG Clinical Experience

## Overview

### Course Description

This course provides beginning clinical experience in a hospital, outpatient clinic, or physician's office setting, under the supervision of a qualified technologist or qualified physician. Emphasis is placed on quality interaction between patients/ family and medical personnel and beginning skill level development in EEG studies. Upon completion, students should be able to conduct themselves professionally and demonstrate basic EEG skills as ordered by physicians.

**Course ID**  
S26263

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**4**

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  | Load       |
| 12             | 12         |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**4**

### Simple Requisites

**State prerequisite**  
**Type**  
**Prerequisite**

Take One Set: Set 1: NDT-111A Set2: NDT-112  
Set 3: NDT-115

Take 1 group; # Take NDT-111A; # Take NDT-112;  
# Take NDT-115;

# NDT118 - NDT Laboratory Practicum II

## Overview

### Course Description

This course is a continuation of NDT 115. Emphasis is placed on practical skills developed in neurological testing, to include the basic EEG along with special testing procedures. Upon completion, students should be able to conduct neurological testing in mock situations.

Course ID  
S26251

### Credit Hours

Credit  
Hours  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 9              | 9    |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take NDT-115

Take NDT-115;

# NDT218 - NDT Clinical Experience

## Overview

### Course Description

This course provides clinical experience in a hospital, outpatient clinic, or physician's office setting, under the supervision of a qualified technologist or qualified physician. Emphasis is placed on quality interaction between patients/family and medical personnel and optimal skill level development in a variety of neurodiagnostic procedures. Upon completion, students should be able to conduct themselves professionally in a clinical setting and conduct optimal neurodiagnostic procedures as ordered by physicians.

**Course ID**  
S26260

### Credit Hours

**Credit Hours**  
8

|                       |                             |
|-----------------------|-----------------------------|
| <b>Name</b>           |                             |
| <b>Clinical Hours</b> | <b>Code</b><br><b>CLINC</b> |
| <b>Contact Hours</b>  | <b>Load</b>                 |
| <b>24</b>             | <b>24</b>                   |

### Billing Hours

**Billing Hours**  
8

### Simple Requisites

|                                    |
|------------------------------------|
| <b>State prerequisite</b>          |
| <b>Type</b><br><b>Prerequisite</b> |

**Take NDT-118**  
Take NDT-118;

# NDT220 - IONM and EP

## Overview

### Course Description

This course provides additional knowledge and skills in the special testing procedure of Intra-Operative Neuro-Monitoring (IONM). Emphasis is placed on the application of skills associated with neurological testing procedures with special focus on Intra-Operative Neuro Monitoring and Evoked Potentials (EP). Upon completion, students should be able to conduct themselves professionally in a clinical setting and conduct optimal IONM and EP procedures as ordered by physicians.

### Course ID

S26256

### Credit Hours

Credit  
Hours  
7

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hours  
7

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 9              | 9     |

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |

| Contact Hours | Load |
|---------------|------|
| 6             | 6    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take NDT-114

Take NDT-114;

# NDT221 - Long Term Monitoring

## Overview

### Course Description

This course provides expanded knowledge and skills in the special testing procedure of Long-Term Monitoring used in neurological diagnostics. Emphasis is placed on applying the knowledge and skills associated with Long Term Monitoring in the lab and hospital settings. Upon completion, students should be able to conduct themselves professionally in a clinical setting and conduct optimal Long Term Monitoring procedures as ordered by physicians.

Course ID  
S26257

### Credit Hours

Credit  
Hours  
7

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

Billing  
Hours  
7

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  |            |
| 9              | Load 9     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |

| Contact Hours | Load |
|---------------|------|
| 6             | 6    |

# NDT222 - Nerve Conduction Studies

## Overview

### Course Description

This course provides additional knowledge and skills in the specialized testing of Nerve Conduction Studies. Emphasis is placed on the application of skills associated with neurological testing with special focus on Nerve Conduction Studies. Upon completion, students should be able to conduct themselves professionally in a clinical setting and conduct optimal Nerve Conduction Studies as ordered by physicians.

**Course ID**  
S26258

### Credit Hours

**Credit Hours**  
7

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hours**  
7

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  |            |
| 9              | Load 9     |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |

| Contact Hours | Load |
|---------------|------|
| 6             | 6    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take NDT-114  
Take NDT-114;

# NET110 - Networking Concepts

## Overview

### Course Description

This course introduces students to the networking field. Topics include network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

**Course ID**  
S21056

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 2         | 2    |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          | Load |
| Hours   | 2        | 2    |

# NET125 - Introduction to Networks

## Overview

### Course Description

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Topics include introduction to the principles of IP addressing and fundamentals of Ethernet concepts, media, and operations. Upon completion, students should be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

**Course ID**  
S24501

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 1         | 1    |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          | Load |
| Hours   | 4        | 4    |



# NET126 - Switching and Routing

## Overview

### Course 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.

### Course ID

S25758

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take NET-125  
Take NET-125(S24501);

# NET225 - Enterprise Networking

## Overview

### Course Description

This course is designed to cover the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasis is placed on configuring, troubleshooting, and securing enterprise network devices and understanding how application programming interfaces (API) and configuration management tools enable network automation. Upon completion, students should be able to configure link state routing protocols, implement ACLs to filter traffic and secure administrative access, configure NAT services on the router to provide address scalability, explain techniques to provide address scalability and secure remote access for WAN, and explain how automation affects evolving networks.

### Course ID

S25759

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hours  
4  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

## Simple Requisites

### Local Prerequisite

Type  
Prerequisite

Take NET-126  
Take NET-126(S25758);

# NET226 - Network Programmability

## Overview

### Course Description

This course covers the methodologies and tools of modern software development, applied to IT and Network operations. Emphasis is placed on network programming in current network scripting languages, using GIT and common data formats, deploying applications as containers, using Continuous Integration/Continuous Deployment (CI/CD) pipelines and automating infrastructure using code. Upon completion, students should be able to use basic Python programming and Linux skills, implement a development environment, use software development and design best practices, create a secure API, use current technologies to deploy and secure applications and compare software testing and deployment methods in automation and simulation environments.

**Course ID**  
S25797

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 4       |          | 4    |

# NOS110 - Operating Systems Concepts

## Overview

### Course 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.

**Course ID**  
S20980

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Simple Requisites

| Local Recommended Concurrent Or Previous Courses |
|--------------------------------------------------|
| Type                                             |
| Corequisite                                      |

Take CIS-110 or CIS-111

Take CIS-110(S21058) or CIS-111(S21059);

# NUC110 - Nuclear Reactor Systems

## Overview

### Course Description

This course provides an introduction to nuclear power plants. Topics include the description and function of each major component of the primary and secondary systems. Upon completion, students should be able to demonstrate a working knowledge of major nuclear energy power systems and processes including their application during refueling operations.

Course ID  
S23252

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# NUC120 - Nuclear Reactor Theory

## Overview

### Course Description

This course covers the fundamental operating theory of nuclear reactors used by electric utilities. Topics include nuclear fission, radioactivity, radiation, reactivity effects from control rods, fission products, and the burnable poisons created during reactor steady-state and transient operations. Upon completion, students should be able to demonstrate a working knowledge of the neutron life cycle, reactor kinetics, reactivity coefficients, and the effects from xenon.

Course ID  
S23253

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| 4       |           | 4     |

### Billing Hours

Billing  
Hour  
s  
Min:  
4

### Simple Requisites

| Local Prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take one set: Set 1: Take ENG-111 MAT-121 Set 2: Take ENG-111 MAT-122

Take 1 group; # Take ENG-111(S24022) MAT-121(S23927); # Take ENG-111(S24022) MAT-122(S23931);

# NUC130 - Applied NDE-Nuclear

## Overview

### Course Description

This course introduces the principles of nondestructive examination (NDE) of the quality of stainless steel pipe, reactor vessel, and nozzle welds. Topics include practical applications of visual inspection along with dye penetrant, magnetic particle, ultrasonic, and radiographic testing, of acceptable and unacceptable welds. Upon completion, students should be able to select and apply the proper testing method to detect surface and subsurface flaws.

Course ID  
S22454

### Credit Hours

Credit Hour  
s  
Min:  
2

| Name          | Classroom | Code |
|---------------|-----------|------|
| Hours         | CLASS     |      |
| Contact Hours | Load      |      |
| 1             | 1         |      |

### Billing Hours

Billing Hour  
s  
Min:  
2

| Name          | Lab/Shop | Code |
|---------------|----------|------|
| Hours         | LAB      |      |
| Contact Hours | Load     |      |
| 2             | 2        |      |

# NUC210 - Nuclear Steam Plant Systems

## Overview

### Course Description

This course provides the student with detailed knowledge of the secondary systems in a nuclear power plant, their interface with the primary systems, and the operation and control of these components and systems. Topics include steam generators, main steam systems, condensate and feed water systems, main turbines, main generators and support, control systems, and plant auxiliary systems. Upon completion, students should be able to describe nuclear plant secondary systems, functioning of components, the interactions between the systems parts, the interactions between the various secondary systems, and the interactions between the secondary and primary systems and the control of these systems.

**Course ID**  
S23259

### Credit Hours

**Credit Hours**  
Min:  
4

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

**Billing Hours**  
Min:  
4

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

## Simple Requisites

### Prerequisite

Type  
Prerequisite

**Take NUC-120**  
Take NUC-120(S23253);

### State prerequisite

Type  
Prerequisite

**nuc-110**  
Take NUC-110(S23252);

# NUC220 - Nuclear Primary Plant Systems

## Overview

### Course Description

This course provides the student with detailed knowledge of the primary systems in a nuclear power plant and their interface with the secondary systems and the operation and control of these components and systems. Topics include containment systems, radiation protection systems including components and testing devices, primary systems such as the reactor, reactor vessel, reactor coolant, and reactor coolant pumps, system pressure and water level controls, and refueling systems and reactor safety systems. Upon completion, students should be able to describe nuclear plant primary systems, functioning of components, the interactions between the systems parts, the interactions between the various secondary systems, and the interactions between the secondary and primary systems and the control of these systems.

**Course ID**  
S23262

### Credit Hours

**Credit Hours**  
4

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hours**  
4

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |

| Contact Hours | Load |
|---------------|------|
| 2             | 2    |

### Simple Requisites

#### Prerequisite

Type  
Prerequisite

**Take NUC-110**  
Take NUC-110(S23252);

#### State prerequisite

Type  
Prerequisite

**Take NUC-120**  
Take NUC-120(S23253);

# NUR101 - Practical Nursing I

## Overview

### Course 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.

**Course ID**  
S24252

### Credit Hours

**Credit  
Hour  
s**  
**Min:**  
**11**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 7       |           | 7     |

### Billing Hours

**Billing  
Hour  
s**  
**Min:**  
**11**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 6       |          | 6    |

| Name  | Clinical | Code  |
|-------|----------|-------|
| Hours |          | CLINC |

| Contact<br>Hours | Load |
|------------------|------|
| 6                | 6    |

### Simple Requisites

#### Local Corequisite

**Type**  
**Corequisite**

|                     |
|---------------------|
| <b>Take PSY-150</b> |
| Take PSY-150;       |

#### Local Corequisite

**Type**  
**Corequisite**

|                                  |
|----------------------------------|
| <b>Take BIO-163 or BIO-169</b>   |
| Take BIO-163 or BIO-169(S11629); |



# NUR102 - Practical Nursing II

## Overview

### Course 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.

**Course ID**  
S24253

### Credit Hours

**Credit Hour**  
**Hours**  
**Min:**  
**10**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 7         | 7     |

### Billing Hours

**Billing Hour**  
**Hours**  
**Min:**  
**10**

| Name     |       |
|----------|-------|
| Clinical | Code  |
| Hours    | CLINC |
| Contact  |       |
| Hours    | Load  |
| 9        | 9     |

### Simple Requisites

| Local Recommended Concurrent Or Previous Courses |             |
|--------------------------------------------------|-------------|
| Type                                             | Corequisite |

**Take ENG-111 PSY-241**

Take ENG-111(S24022) PSY-241;

### State prerequisite

**Type**  
**Prerequisite**

**Take NUR-101**

Take NUR-101(S24252);

# NUR103 - Practical Nursing III

## Overview

### Course 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.

**Course ID**  
S24254

### Credit Hours

**Credit Hours**  
9

|                      |                        |              |
|----------------------|------------------------|--------------|
| <b>Name</b>          | <b>Classroom Hours</b> | <b>Code</b>  |
|                      |                        | <b>CLASS</b> |
| <b>Contact Hours</b> | <b>Load</b>            |              |
| 6                    | 6                      |              |

### Billing Hours

**Billing Hours**  
9

|                      |                       |              |
|----------------------|-----------------------|--------------|
| <b>Name</b>          | <b>Clinical Hours</b> | <b>Code</b>  |
|                      |                       | <b>CLINC</b> |
| <b>Contact Hours</b> | <b>Load</b>           |              |
| 9                    | 9                     |              |

### Simple Requisites

|                           |
|---------------------------|
| <b>State prerequisite</b> |
| <b>Type Prerequisite</b>  |
| Take NUR-101              |

# NUR111 - Introduction to Health Concepts

## Overview

### Course 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.

**Course ID**  
S22213

### Credit Hours

**Credit Hours**  
8

|                      |                        |              |
|----------------------|------------------------|--------------|
| <b>Name</b>          | <b>Classroom Hours</b> | <b>Code</b>  |
|                      |                        | <b>CLASS</b> |
| <b>Contact Hours</b> | <b>Load</b>            |              |
| 4                    | 4                      |              |

### Billing Hours

**Billing Hours**  
8

|                      |                       |             |
|----------------------|-----------------------|-------------|
| <b>Name</b>          | <b>Lab/Shop Hours</b> | <b>Code</b> |
|                      |                       | <b>LAB</b>  |
| <b>Contact Hours</b> | <b>Load</b>           |             |
| 6                    | 6                     |             |

|             |                       |              |
|-------------|-----------------------|--------------|
| <b>Name</b> | <b>Clinical Hours</b> | <b>Code</b>  |
|             |                       | <b>CLINC</b> |

| Contact Hours | Load |
|---------------|------|
| 6             | 6    |

# NUR112 - Health-Illness Concepts

## Overview

### Course 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.

**Course ID**  
S22212

### Credit Hours

**Credit Hour**  
5

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

**Billing Hour**  
5

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 6              | 6     |

### Simple Requisites

| Local Prerequisite |
|--------------------|
| Type Prerequisite  |

### Simple Requisites

| Recommended concurrent or previous courses |
|--------------------------------------------|
| Type                                       |
| Corequisite                                |
| Take BIO-168 and PSY-150                   |
| Take BIO-168(S11555) PSY-150;              |

**Take BIO-168 PSY-150**  
Take BIO-168(S11555) PSY-150;

**Local Corequisite**  
  
**Type**  
**Corequisite**  

**Take PSY-241**  
Take PSY-241;

**State prerequisite**  
  
**Type**  
**Prerequisite**  

**Take NUR-111**  
Take NUR-111;

# NUR113 - Family Health Concepts

## Overview

### Course 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.

**Course ID**  
**S22214**

### Credit Hours

**Credit Hour**  
**5**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hour**  
**5**

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
|                |            |
| Contact Hours  | Load       |
| 6              | 6          |

### Simple Requisites

**Local Prerequisite**  
  
**Type**  
**Prerequisite**

**Take BIO-168 NUR-112 PSY-150;**  
Take BIO-168(S11555) NUR-112 PSY-150;

**Local Corequisite**  
  
**Type**  
**Corequisite**  
  
**Take BIO-169**  
Take BIO-169(S11629);

**State prerequisite**  
  
**Type**  
**Prerequisite**  
  
**Take NUR-111**  
Take NUR-111;

# NUR114 - Holistic Health Concepts

## Overview

### Course 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.

**Course ID**  
**S22215**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
|                |            |
| Contact Hours  | Load       |
| 6              | 6          |

### Simple Requisites

**Local Prerequisite**  
  
**Type**  
**Prerequisite**

Take NUR-112

Take NUR-112;

Local Pre/Co-Requisite

Type

Corequisite

Take PSY-241

Take PSY-241;

State prerequisite

Type

Prerequisite

Take NUR-111

Take NUR-111;

# NUR211 - Health Care Concepts

## Overview

### Course 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.

Course ID  
S22216

### Credit Hours

Credit  
Hour  
s  
Min:  
5

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
5

| Name    | Clinical | Code  |
|---------|----------|-------|
| Hours   |          | CLINC |
| Contact |          |       |
| Hours   | Load     |       |
| 6       | 6        |       |

### Simple Requisites

Local Prerequisite

Type

Prerequisite

Take NUR-113 NUR-114

Take NUR-113 NUR-114;

Local Pre/Co-Requisites

Type

Corequisite

Take ENG-111

Take ENG-111(S26393);

State prerequisite

Type

Prerequisite

Take NUR-111

Take NUR-111;

# NUR212 - Health System Concepts

## Overview

### Course 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

Course ID  
S22217

### Credit Hours

Credit  
Hour  
s  
Min:  
5

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

Billing  
Hour  
s  
Min:  
5

| Name    | Clinical | Code |
|---------|----------|------|
| Hours   | CLINC    |      |
| Contact | Hours    | Load |
| 6       |          | 6    |

### Simple Requisites

Local Prerequisite

Type

Prerequisite

Take NUR-211

Take NUR-211;

Local Pre/Co-Requisite

Type

Corequisite

Take ENG-111

Take ENG-111(S26393);

State prerequisite

Type

Prerequisite

Take NUR-111

Take NUR-111;

# NUR213 - Complex Health Concepts

## Overview

### Course 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.

Course ID  
S23071

### Credit Hours

Credit  
Hours  
10

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 4       |           | 4    |

### Billing Hours

Billing  
Hours  
10

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

|       |          |      |
|-------|----------|------|
| Name  | Clinical | Code |
| Hours | CLINC    |      |



|                          |             |
|--------------------------|-------------|
| <b>Contact<br/>Hours</b> | <b>Load</b> |
| <b>15</b>                | <b>15</b>   |

**Take NUR-112, NUR-113, NUR-114, NUR-211 and NUR-212**  
  
Take NUR-112 NUR-113 NUR-114 NUR-211 NUR-212;

Simple Requisites

**Local Prerequisite**  
**Type**  
**Prerequisite**

**Take ENG-111 and NUR-212**  
Take ENG-111(S26393) NUR-212;

**Local Pre/Co-Requisites**  
**Type**  
**Corequisite**

**Take ENG-114 or ENG-112**  
Take ENG-114(S13706) or ENG-112(S24024);

**Local Corequisite**  
**Type**  
**Corequisite**

**#Take BIO-175**  
Take BIO-175(S20491);

**State prerequisite**  
**Type**  
**Prerequisite**

**Take NUR-111**  
Take NUR-111;

**State concurrent or previous courses**  
**Type**  
**Corequisite**

# NUR214 - Nursing Transition Concepts

## Overview

### Course 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.

**Course ID**  
S22443

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
4

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   |              |
| <b>Load</b>            |              |
| 3                      | 3            |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
4

|                       |              |
|-----------------------|--------------|
| <b>Name</b>           |              |
| <b>Clinical Hours</b> | <b>Code</b>  |
|                       | <b>CLINC</b> |
| <b>Contact Hours</b>  |              |
| <b>Load</b>           |              |
| 3                     | 3            |

# NUR221 - LPN to ADN Concepts I

## Overview

### Course Description

This course is designed for the LPN to ADN student to explore the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of safety, perfusion, inflammation, oxygenation, mood/affect, behavior, development, family, health-wellness-illness, sensory perception, stress/coping, cognition, self, violence, and professional behaviors. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

**Course ID**  
S22445

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
9

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   |              |
| <b>Load</b>            |              |
| 6                      | 6            |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
9

|                       |              |
|-----------------------|--------------|
| <b>Name</b>           |              |
| <b>Clinical Hours</b> | <b>Code</b>  |
|                       | <b>CLINC</b> |
| <b>Contact Hours</b>  |              |
| <b>Load</b>           |              |
| 9                     | 9            |

# NUR223 - LPN to ADN Concepts II

## Overview

### Course Description

This course is designed for the LPN to ADN student to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, thermoregulation, oxygenation, tissue integrity, infection, perfusion, mobility, reproduction, sexuality, health-wellness-illness, professional behaviors, accountability, advocacy, and collaboration. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry-level nursing care.

**Course ID**  
S22446

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**9**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 6             | 6               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**9**

| Name          | Clinical Hours | Code  |
|---------------|----------------|-------|
|               |                | CLINC |
| Contact Hours | Load           |       |
| 9             | 9              |       |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take NUR-221  
Take NUR-221;

# NUT110 - Nutrition

## Overview

### Course Description

This course covers basic principles of nutrition and their relationship to human health. Topics include meeting nutritional needs of healthy people, menu modification based on special dietary needs, food habits, and contemporary problems associated with nutrition. Upon completion, students should be able to apply basic nutritional concepts as they relate to health and well being.

**Course ID**  
S16468

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# OMT110 - Introduction to Operations Management

## Overview

### Course Description

This course provides an overview of the operations management field. Topics include production and operations planning, materials management, environmental health and safety, and quality management. Upon completion, students should be able to demonstrate an understanding of the operations management functions.

**Course ID**  
S13368

### Credit Hours

**Credit Hours**  
3

|                       |              |
|-----------------------|--------------|
| <b>Name</b>           |              |
| <b>Classroom Code</b> |              |
| <b>Hours</b>          | <b>CLASS</b> |
| <b>Contact Hours</b>  |              |
| <b>Load</b>           |              |
| <b>3</b>              | <b>3</b>     |

### Billing Hours

**Billing Hours**  
3

# OMT112 - Materials Management

## Overview

### Course Description

This course covers the basic principles of materials management. Emphasis is placed on the planning, procurement, movement, and storage of materials. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques related to materials management.

**Course ID**  
S24143

### Credit Hours

**Credit Hours**  
3

|                       |              |
|-----------------------|--------------|
| <b>Name</b>           |              |
| <b>Classroom Code</b> |              |
| <b>Hours</b>          | <b>CLASS</b> |
| <b>Contact Hours</b>  |              |
| <b>Load</b>           |              |
| <b>3</b>              | <b>3</b>     |

### Billing Hours

**Billing Hours**  
3

# OMT132 - ISO 9000 Standards

## Overview

### Course Description

This course covers the current version of the ISO 9000 series of standards. Topics include the ISO 9000 series of standards and proper implementation of these standards in an organization. Upon completion, students should be able to identify the proper ISO standard for registration and demonstrate a detailed understanding of each standard.

**Course ID**  
S11685

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# OMT135 - FDA GMP Compliance

## Overview

### Course Description

This course covers the current version of the Food and Drug Administration's Good Management Practices. Emphasis is placed on how and why medical equipment and pharmaceutical manufacturers should comply with these standards. Upon completion, students should be able to understand and implement good management practices in a facility to comply with the FDA standards.

**Course ID**  
S11769

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# OMT156 - Problem-Solving Skills

## Overview

### Course Description

This course provides a foundation for creating constructive relationships and presents the processes behind problem solving for groups and individuals. Emphasis is placed on building constructive relationships, confronting issues, winning support, and the basic processes of problem solving. Upon completion, students should be able to enhance relationships with others and apply a systematic approach to problem solving.

**Course ID**  
S12579

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# OMT260 - Issues in Operations Management

## Overview

### Course Description

This course presents a variety of topics that highlight contemporary problems and issues related to operations management. Emphasis is placed on production and operations planning, environmental health and safety, materials management, and quality systems. Upon completion, students should be able to demonstrate the ability to make decisions and resolve problems in an operations management environment.

**Course ID**  
S24144

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

## Simple Requisites

State prerequisite

Type  
Prerequisite

Take One Set: Set 1: ISC-121, ISC-130, ISC-210,

and OMT-112 Set 2: ISC-121, ISC-131, ISC-210,  
and OMT-112 Set 3: ISC-121, ISC-132, ISC-210,  
and OMT-112 Set 4: ISC-121, ISC-221, ISC-210,  
and OMT-112

Take 1 group; # Take ISC-121(S20650) ISC-130  
ISC-210 OMT-112(S24143); # Take  
ISC-121(S20650) ISC-131 ISC-210  
OMT-112(S24143); # Take ISC-121(S20650)  
ISC-132(S23492) ISC-210 OMT-112(S24143); #  
Take ISC-121(S20650) ISC-221 ISC-210  
OMT-112(S24143);

# OST136 - Word Processing

## Overview

### Course 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 able to work effectively in a computerized word processing environment.

Course ID  
S22144

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 2             | 2              |

### Billing Hours

Billing  
Hours  
3

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 2             | 2             |

### Simple Requisites

#### Local Prerequisite

Type  
Prerequisite

Take CIS-110 or CIS-111

Take CIS-110(S21058) or CIS-111(S21059);

# OST148 - Medical Insurance and Billing

## Overview

### Course 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.

**Course ID**  
S24693

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

| Local Prerequisite                    |
|---------------------------------------|
| Type Prerequisite                     |
| Take OST-247 OST-248                  |
| Take OST-247(S24704) OST-248(S24705); |

# OST149 - Medical Legal Issues

## Overview

### Course 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.

**Course ID**  
S10679

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**



# OST164 - Office Editing

## Overview

### Course Description

This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text.

**Course ID**  
S24696

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 3                      | 3            |

### Billing Hours

**Billing Hours**  
3

# OST247 - Procedure Coding

## Overview

### Course 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.

**Course ID**  
S24704

### Credit Hours

**Credit Hours**  
3

|                        |              |
|------------------------|--------------|
| <b>Name</b>            |              |
| <b>Classroom Hours</b> | <b>Code</b>  |
|                        | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 2                      | 2            |

### Billing Hours

**Billing Hours**  
3

|                       |             |
|-----------------------|-------------|
| <b>Name</b>           |             |
| <b>Lab/Shop Hours</b> | <b>Code</b> |
|                       | <b>LAB</b>  |
| <b>Contact Hours</b>  | <b>Load</b> |
| 2                     | 2           |

## Simple Requisites

### Local Prerequisite

**Type**  
**Prerequisite**

**Take One Set: Set: MED-121 MED-122 Set: OST-141 OST-142**

Take 1 group; # Take MED-121 MED-122; # Take OST-141(S24691) OST-142(S24692);

**State prerequisite**

**Type**

**Prerequisite**

**Take One: MED-121 or OST-141**

Take MED-121 or OST-141(S24691);

# OST248 - Diagnostic Coding

## Overview

### Course 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.

### Course ID

S24705

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

## Simple Requisites

**Local Prerequisite**

**Type**

**Prerequisite**

**Take One Set: Set: MED-121 MED-122 Set: OST-141 OST-142**

Take 1 group; # Take MED-121 MED-122; # Take OST-141(S24691) OST-142(S24692);

**State prerequisite**

Type

Prerequisite

Take One: MED-121 or OST-141

Take MED-121 or OST-141(S24691);

# OST249 - Medical Coding Certification Preparation

## Overview

### Course 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.

Course ID  
S24706

### Credit Hours

Credit  
Hours  
Min:  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 2             | 2              |

### Billing Hours

Billing  
Hours  
Min:  
3

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 3             | 3             |

### Simple Requisites

State prerequisite

Type

Prerequisite

Take All: OST-247 and OST-248

Take OST-247(S24704) OST-248(S24705);

Take OST-247(S24704) OST-248(S24705);

# OST260 - Advanced Coding Methodologies

## Overview

### Course Description

This course provides advanced instruction in a variety of emergent methodologies in medical coding. Topics include advanced outpatient coding, inpatient coding, risk adjustment coding, online encoder software, Correct Coding Initiatives (CCI), and advanced record abstraction. Upon completion, students should be able to perform advanced coding in a healthcare facility.

Course ID  
S24668

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Simple Requisites

|                               |
|-------------------------------|
| State prerequisite            |
| Type Prerequisite             |
| Take All: OST-247 and OST-248 |

# OST264 - Medical Auditing

## Overview

### Course 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.

Course ID  
S24670

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

|                                       |
|---------------------------------------|
| State prerequisite                    |
| Type<br>Prerequisite                  |
| Take All: OST-247 and OST-248         |
| Take OST-247(S24704) OST-248(S24705); |

# OST265 - Healthcare Compliance and Regulations

## Overview

### Course Description

This course provides instruction in the areas of healthcare regulations, medical necessity, health and privacy laws, and compliance practices. Emphasis is placed on regulatory control and compliance issues as well as Medicare regulations related to billing. Upon completion, students should be able to abstract the medical documentation for the purpose of medical necessity and apply regulations that are important in the medical auditing process.

Course ID  
S24671

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |

Take OST-264

Take OST-264;

# OST280 - Electronic Health Records

## Overview

### Course Description

This course focuses on the use of electronic health records in medical documentation and patient management. Emphasis is placed on creating and maintaining patient medical information, scheduling patient appointments, documenting patient encounters, and billing/insurance claim processing. Upon completion, students should be able to perform the required software tasks following a patient visit from start to finish.

### Course ID

S24673

### Credit Hours

Credit Hours  
3

| Name          | Classroom | Code  |
|---------------|-----------|-------|
| Hours         |           | CLASS |
| Contact Hours |           | Load  |
| 2             |           | 2     |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop | Code |
|---------------|----------|------|
| Hours         |          | LAB  |
| Contact Hours |          | Load |
| 2             |          | 2    |

### Simple Requisites

| Local Corequisite   |
|---------------------|
| Type<br>Corequisite |

**Take OST-148**  
Take OST-148(S24693);

**State prerequisite**  
**Type**  
**Prerequisite**  
**Take One: CIS-110, CIS-111, or OST-137**  
Take CIS-110(S21058) CIS-111(S21059) or OST-137(S24689);

# OST288 - Medical Office Administration Capstone

## Overview

### Course 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.

**Course ID**  
**S24674**

### Credit Hours

**Credit Hours**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hours**  
**3**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Simple Requisites

**State prerequisite**  
**Type**  
**Prerequisite**

**Take One: OST-148 or HMT-210**  
Take OST-148(S24693) or HMT-210(S24675);

# OTA110 - Fundamentals of OT

## Overview

### Course Description

This course introduces occupational therapy (OT) theory, practice, philosophy, and principles. Emphasis is placed on providing a basic understanding of the profession as well as beginning to develop interaction and observation skills. Upon completion, students should be able to demonstrate basic understanding of the domain and practice of occupational therapy, practice settings and professional roles, OT terminology, activity analysis, principles, process, philosophies, and frames of reference.

**Course ID**  
**S24624**

### Credit Hours

**Credit Hours**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| Load            |            |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
**3**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| Load           |          |
| 3              | 3        |

### Simple Requisites

| Local Recommended Concurrent Or Previous Courses |
|--------------------------------------------------|
| Type                                             |
| Corequisite                                      |



**Take OTA-120 OTA-140**  
Take OTA-120(S24625) OTA-140(S24628);

**State concurrent or previous courses**  
**Type**  
**Corequisite**  

**Take One: BIO-165 or BIO-168**  
Take BIO-165 or BIO-168(S11555);

# OTA120 - OT Media I

## Overview

### Course Description

This course provides training in recognizing the therapeutic value and use of a wide variety of human occupations including basic activities of daily living, instrumental activities of daily living, rest and sleep, education, work, play, leisure, and social participation. Topics include the understanding of different teaching and learning methods and styles, the language of occupational therapy (OT), OT interventions including preparatory methods and tasks, and restorative and compensatory techniques. Upon completion, students should be able to analyze, design, select, and safely perform occupation related activities that would be therapeutic for various populations across the lifespan.

### Course ID

S24625

### Credit Hours

Credit Hours  
2

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 1             | 1              |

### Billing Hours

Billing Hours  
2

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 3             | 3             |

### Simple Requisites

|                                          |
|------------------------------------------|
| Local Recommended Concurrent Or Previous |
|------------------------------------------|

**Courses**

Type

Corequisite

Take OTA-140

Take OTA-140(S24628);

State concurrent or previous courses

Type

Corequisite

Take OTA-110

Take OTA-110(S11130);

# OTA130 - Assessment Skills

## Overview

### Course Description

This course provides training in appropriate and accurate assessment skills related to sensation, movement, vision, perception, cognition, emotions, and performance of basic activities of daily living and instrumental activities of daily living. Topics include physical and psychosocial factors affecting performance; and sensory, range of motion, strength, coordination, cognitive, visual-perceptual, self-care, and work-related assessments. Upon completion, students should be able to gather and share data for the purpose of screening and evaluation, administer selected assessments using appropriate procedures and protocols, and articulate the role of the occupational therapy assistant and occupational therapist in the screening and evaluation process.

### Course ID

S24626

### Credit Hours

Credit  
Hours  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

Billing  
Hours  
3

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

### Simple Requisites

|                    |
|--------------------|
| Local Prerequisite |
|--------------------|

Type

Prerequisite

Take OTA-120 OTA-140

Take OTA-120(S24625) OTA-140(S24628);

Local Recommended Concurrent Or Previous Courses

Type

Corequisite

Take OTA-150 OTA-161 OTA-170

Take OTA-150(S24629) OTA-161(S24530) OTA-170(S24630);

State concurrent or previous courses

Type

Corequisite

Take OTA-110

Take OTA-110(S11130);

# OTA140 - Professional Skills I

## Overview

**Course Description**  
This course introduces the roles and responsibilities of the occupational therapy assistant (OTA) and the occupational therapist (OT) in occupational therapy practice and facilitates development of professional behaviors and skills. Topics include professional ethics, supervisory roles, responsibilities, and collaborative professional relationships; credentialing, certification, and licensure; documentation, which communicates the need and rationale for occupational therapy services; therapeutic use of self; and professional identity and professional behaviors; and observation skills. Upon completion, students should be able to demonstrate ethical behavior, discriminate between roles and responsibilities of the OTA and OT, and explain acceptable supervision and documentation.

**Course ID**  
S24628

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hour  
s  
Min:  
1

### Simple Requisites

|                                          |
|------------------------------------------|
| Local Recommended Concurrent Or Previous |
|------------------------------------------|

**Courses**

Type

Corequisite

Take OTA-120

Take OTA-120(S24625);

State concurrent or previous courses

Type

Corequisite

Take OTA-110

Take OTA-110(S11130);

# OTA150 - Pediatric Concepts and Interventions

## Overview

### Course Description

This course provides knowledge and skills needed for working with children from birth through adolescence. Topics include review of normal growth and development, habituation of healthy habits/ routines, the role of occupational therapy with caregivers/providers, understanding of common conditions and developmental delays; and the role of occupation in assessment, intervention planning and implementation with pediatric populations. Upon completion, students should be able to plan, implement, and modify appropriate interventions with children in their context and environment to promote engagement in occupation.

Course ID  
S24629

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

|                    |
|--------------------|
| Local Prerequisite |
|--------------------|

Type  
Prerequisite

Take **OTA-110 OTA-120 OTA-140**  
Take OTA-110(S24624) OTA-120(S24625)  
OTA-140(S24628);

Local Recommended Concurrent Or Previous Courses

Type  
Corequisite

Take **OTA-130 OTA-161**  
Take OTA-130(S24626) OTA-161(S24530);

State concurrent or previous courses

Type  
Corequisite

Take **PSY-241 and OTA-170**  
Take PSY-241 OTA-170(S10621);

# OTA161 - Fieldwork I-Placement 1

## Overview

### Course Description

This course provides introductory-level clinical training opportunities. Emphasis is placed on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance/direction of fieldwork supervisors.

**Course ID**  
S24530

### Credit Hours

**Credit Hours**  
**Min:**  
**1**

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 3              | 3     |

### Billing Hours

**Billing Hours**  
**Min:**  
**1**

### Simple Requisites

Local Prerequisite

Type  
Prerequisite

Take **OTA-110**  
Take OTA-110(S24624);

**Local Recommended Concurrent Or Previous Courses**

Type  
Corequisite

Take **OTA-150** **OTA-170**

Take OTA-150(S24629) OTA-170(S24630);

**State prerequisite**

Type  
Prerequisite

Take **OTA-120** and **OTA-140**

Take OTA-120(S12742) OTA-140(S11797);

# OTA162 - Fieldwork I-Placement 2

## Overview

### Course Description

This course provides introductory-level clinical training opportunities. Emphasis is placed on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance/direction of fieldwork supervisors.

### Course ID

S13445

**Credit Hours**

Credit  
Hour  
s  
Min:  
1

|                           |               |
|---------------------------|---------------|
| Name<br>Clinical<br>Hours | Code<br>CLINC |
| Contact<br>Hours          | Load          |
| 3                         | 3             |

**Billing Hours**

Billing  
Hour  
s  
Min:  
1

**Simple Requisites**

**Local Prerequisite**

Type  
Prerequisite

Take **OTA-150** **OTA-161** **OTA-170**

Take OTA-150(S10666) OTA-161(S13419)

OTA-170(S10621);

Local Recommended Concurrent Or Previous Courses

Type

Corequisite

Take OTA-220

Take OTA-220(S12062);

State prerequisite

Type

Prerequisite

Take OTA-120 and OTA-140

Take OTA-120(S12742) OTA-140(S11797);

State concurrent or previous courses

Type

Corequisite

Take OTA-130

Take OTA-130(S10255);

# OTA163 - Fieldwork I-Placement 3

## Overview

### Course Description

This course provides introductory-level clinical training opportunities. Emphasis is placed on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance/direction of fieldwork supervisors.

Course ID  
S13397

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 3              | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
1

### Simple Requisites

Local Prerequisite

Type

Prerequisite

Take OTA-220

Take OTA-220(S12062);

**Local Recommended Concurrent Or Previous Courses**  
**Type**  
**Corequisite**  

**Take OTA-180, OTA-240 and OTA-250**  
Take OTA-180(S11591) OTA-240(S13359) OTA-250(S10531);

**State prerequisite**  
**Type**  
**Prerequisite**  

**Take OTA-120 and OTA-140**  
Take OTA-120(S12742) OTA-140(S11797);

**State concurrent or previous courses**  
**Type**  
**Corequisite**  

**Take OTA-130**  
Take OTA-130(S10255);

# OTA170 - Physical Conditions

## Overview

### Course Description

This course is designed to provide knowledge and skills needed for working with individuals experiencing various medical conditions to help them achieve participation in life through engagement in occupation. Topics include medical terminology, common conditions, body functions that change with disease processes, applicable theories and principles, assessment and intervention priorities for commonly treated conditions. Upon completion, students should be able to recognize common symptoms, prioritize mental, neuromusculoskeletal and movement related functional problems, while providing for patient safety within the patient's context and environment.

### Course ID

S24630

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

Local Prerequisite



Type

Prerequisite

Take OTA-110 OTA-120 OTA-140

Take OTA-110(S24624) OTA-120(S24625)  
OTA-140(S24628);

Local Recommended Concurrent Or Previous Courses

Type

Corequisite

Take OTA-150 OTA-161

Take OTA-150(S24629) OTA-161(S24530);

State concurrent or previous courses

Type

Corequisite

Take OTA-130

Take OTA-130(S10255);

# OTA180 - Psychosocial Conditions

## Overview

### Course Description

This course is designed to provide knowledge and skills needed for working with individuals experiencing various psychosocial conditions to help them achieve participation in life through engagement in occupation. Topics include mental health conditions, applicable theories and principles, symptoms of dysfunction, assessment and treatment of individuals, planning and facilitating therapeutic groups, client safety, therapeutic use of self, and psychosocial aspects of practice. Upon completion, students should be able to effectively plan and conduct individual and group interventions for client conditions related to psychosocial dysfunction while recognizing contexts and environments that may also impact occupational performance.

Course ID  
S24631

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

Simple Requisites

**Local Prerequisite**

Type  
Prerequisite

Take OTA-220

Take OTA-220(S24632);

**Local Recommended Concurrent Or Previous Courses**

Type  
Corequisite

Take OTA-163 OTA-240 OTA-250

Take OTA-163 OTA-240(S24633)  
OTA-250(S24634);

**State prerequisite**

Type  
Prerequisite

Take PSY-281

Take PSY-281(S12906);

**State concurrent or previous courses**

Type  
Corequisite

Take OTA-130

Take OTA-130(S10255);

OTA220 - OT Media II

Overview

Course Description

This course provides training in appropriate and accurate assessment and intervention skills related to orthotics, prosthetics, assistive devices, assistive technology, client mobility, and Americans with Disabilities Act (ADA) issues. Topics include ergonomics seating and positioning, community mobility, use of physical agent modalities, and technology in occupational therapy intervention. Upon completion, students should be able to demonstrate competency fabricating and utilizing orthotic and assistive devices, understanding ADA guidelines, and using technology for engagement in occupation.

Course ID  
S24632

Credit Hours

Credit  
Hour  
s  
Min:  
3

Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 6       |          | 6    |

Simple Requisites

Local Prerequisite

**Type**  
**Prerequisite**

**Take OTA-150 OTA-161 OTA-170**  
  
Take OTA-150(S24629) OTA-161(S24530)  
OTA-170(S24630);

**Local Recommended Concurrent Or Previous Courses**

**Type**  
**Corequisite**

**Take OTA-162**  
  
Take OTA-162;

**State prerequisite**

**Type**  
**Prerequisite**

**Take OTA-120 and OTA-130**  
  
Take OTA-120(S12742) OTA-130(S10255);

# OTA240 - Professional Skills II

## Overview

### Course Description

This course covers professional development, supervisory relationships, involvement in the profession, and clinic management skills. Topics include clarification of roles and responsibilities, detailed examination of the supervisory process, participation in professional organizations, and the mechanics of assisting in clinic operations. Upon completion, students should be able to work effectively with a supervisor, plan and implement a professional activity, and perform routine clinic management tasks.

**Course ID**  
**S24633**

### Credit Hours

**Credit**  
**Hour**  
**s**  
**Min:**  
**1**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Billing Hours

**Billing**  
**Hour**  
**s**  
**Min:**  
**1**

### Simple Requisites

**Local Prerequisite**

**Type**  
**Prerequisite**

**Take OTA-220**

Take OTA-220(S24632);

**Local Recommended Concurrent Or Previous Courses**

Type

Corequisite

**Take OTA-163 OTA-180 OTA-250**

Take OTA-163 OTA-180(S24631)  
OTA-250(S24634);

**State prerequisite**

Type

Prerequisite

**Take OTA-140**

Take OTA-140(S11797);

# OTA250 - Adult Concepts and Interventions

## Overview

### Course Description

This course provides knowledge and skills needed for working with adults through the lifespan. Emphasis is placed on identification and discussion of common changes associated with aging, disabilities and chronic diseases affecting this population, assessments and intervention, including developing healthy habits and routines, and the impact on participation in occupation in various settings. Upon completion, students should be able to plan, implement, and modify appropriate interventions with adults in their context and environment to promote engagement in occupations.

**Course ID**  
**S24634**

### Credit Hours

**Credit Hours**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 2               | Load 2     |

### Billing Hours

**Billing Hours**  
**3**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Simple Requisites

**Local Prerequisite**

Type

Prerequisite

Take OTA-220

Take OTA-220(S24632);

Local Recommended Concurrent Or Previous Courses

Type

Corequisite

Take OTA-163 OTA-240

Take OTA-163 OTA-240(S24633);

State concurrent or previous courses

Type

Corequisite

Take PSY-241, OTA-170 and OTA-180

Take PSY-241 OTA-170(S10621)  
OTA-180(S11591);

# OTA260 - Level II Fieldwork Placement 1

## Overview

### Course Description

This course provides clinical experience under the direct supervision of experienced occupational therapists or occupational therapy assistant practitioners working in various practice settings. Emphasis is placed on final clinical preparation for entry-level practice in the profession. Upon completion, students should be able to meet all critical competencies for entry-level practice established by the curriculum, AOTA guidelines, and regulatory bodies.

**Course ID**  
S24635

### Credit Hours

**Credit Hour**  
s  
Min:  
6

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 18             | 18    |

### Billing Hours

**Billing Hour**  
s  
Min:  
6

### Simple Requisites

Local Recommended Concurrent Or Previous Courses

Type

Corequisite

Take OTA-261

Take OTA-261(S24636);

OTA261 - Level II Fieldwork Placement 2

Overview

Course Description

This course provides the final clinical experience under the direct supervision of experienced occupational therapists or occupational therapy assistant practitioners working in various practice settings. Emphasis is placed on final clinical preparation for entry-level practice in the profession. Upon completion, students should be able to meet all critical competencies for entry-level practice established by the curriculum, AOTA guidelines, and regulatory bodies.

Course ID

S24636

Credit Hours

Credit  
Hour  
s  
Min:  
6

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 18             | 18    |

Billing Hours

Billing  
Hour  
s  
Min:  
6

Simple Requisites

Local Recommended Concurrent Or Previous Courses

Type  
Corequisite

Take OTA-260

Take OTA-260(S24635);

# PAD151 - Introduction to Public Administration

## Overview

### Course Description

This course includes an overview of the role of the public administrator in government and an examination of the development and implementation of public policy. Topics include public personnel administration and management, decision making, public affairs, ethics, organizational theories, budgetary functions within governmental agencies, and other governmental issues. Upon completion, students should be able to explain the functions of government in society and in the lives of people composing that society.

**Course ID**  
S24135

### Credit Hours

**Credit Hours**  
3

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       | 3         |      |

### Billing Hours

**Billing Hours**  
3

# PAD152 - Ethics in Government

## Overview

### Course Description

This course introduces the ethical issues and problems within the public administration field. Emphasis is placed on building analytical skills, stimulating moral imagination, and recognizing the discretionary power of the administrator's role. Upon completion, students should be able to understand the moral dimensions of public administrative decision making.

**Course ID**  
S24136

### Credit Hours

**Credit Hours**  
3

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       | 3         |      |

### Billing Hours

**Billing Hours**  
3

# PAD251 - Public Finance & Budgeting

## Overview

### Course Description

This course provides an overview of the public finance and budgeting processes used in the allocation of public resources to meet differing public interests. Topics include the political environment, government expenditures, revenues, taxation, budgetary process theories and techniques, and the relation of government finance to the economy. Upon completion, students should be able to recognize impacts of government revenue and expenditure policies and understand the role of budgeting in executing governmental policy.

**Course ID**  
S24137

### Credit Hours

**Credit Hours**  
3

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

**Billing Hours**  
3

# PAD252 - Public Policy Analysis

## Overview

### Course Description

This course is a study of methods and techniques used to determine the effectiveness of public programs. Emphasis is placed on the concept of ecology and environmental impact, informal groups and information networks, and the relationship between public and private sectors. Upon completion, students should be able to analyze case studies with the use of political analysis techniques.

**Course ID**  
S24138

### Credit Hours

**Credit Hours**  
3

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

**Billing Hours**  
3



# PAD254 - Grant Writing

## Overview

### Course Description

This course covers the basic techniques of successful grant writing. Topics include concept development, funding sources research, and writing skills relevant to the grants process. Upon completion, students should be able to demonstrate a basic understanding of the grants process.

**Course ID**  
S11855

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# PBT100 - Phlebotomy Technology

## Overview

### Course Description

This course provides instruction in the skills needed for the proper collection of blood and other specimens used for diagnostic testing. Emphasis is placed on ethics, legalities, medical terminology, safety and universal precautions, health care delivery systems, patient relations, anatomy and physiology, and specimen collection. Upon completion, students should be able to demonstrate competence in the theoretical comprehension of phlebotomy techniques.

**Course ID**  
S10532

### Credit Hours

**Credit Hours**  
6

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 5       |           | 5     |

### Billing Hours

**Billing Hours**  
6

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

## Simple Requisites

**Local Prerequisite**

**Type**  
**Prerequisite**

**NAS-102**

Take NAS-102(S24248);

State concurrent or previous courses

Type

Corequisite

**Take PBT-101**

Take PBT-101;

# PBT101 - Phlebotomy Practicum

## Overview

### Course Description

This course provides supervised experience in the performance of venipuncture and microcollection techniques in a clinical facility. Emphasis is placed on patient interaction and application of universal precautions, proper collection techniques, special procedures, specimen handling, and data management. Upon completion, students should be able to safely perform procedures necessary for specimen collections on patients in various health care settings.

### Course ID

S10511

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 9              | 9     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

Local Prerequisite

Type

Prerequisite

**NAS-102**

Take NAS-102(S24248);

State concurrent or previous courses

Type

Corequisite

**Take PBT-100**

Take PBT-100;

# PBT110 - Phlebotomy Technology

## Overview

### Course Description

This course provides instruction in the skills needed for the proper collection of blood and other specimens used for diagnostic testing. Emphasis is placed on ethics, legalities, medical terminology, safety and universal precautions, health care delivery systems, patient relations, anatomy and physiology, and specimen collection. Upon completion, students should be able to demonstrate competence in the theoretical comprehension of phlebotomy techniques.

### Course ID

S26784

### Credit Hours

Credit  
Hour  
s  
Min:  
6

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 5       | 5         |      |

### Billing Hours

Billing  
Hour  
s  
Min:  
6

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

# PBT111 - Phlebotomy Practicum

## Overview

### Course Description

This course provides supervised experience in the performance of venipuncture and microcollection techniques in a clinical facility. Emphasis is placed on patient interaction and application of universal precautions, proper collection techniques, special procedures, specimen handling, and data management. Upon completion, students should be able to safely perform procedures necessary for specimen collections on patients in various health care settings.

**Course ID**  
S26785

### Credit Hours

**Credit Hours**  
3

|                       |              |
|-----------------------|--------------|
| <b>Name</b>           | <b>Code</b>  |
| <b>Clinical Hours</b> | <b>CLINC</b> |
| <b>Contact Hours</b>  | <b>Load</b>  |
| 9                     | 9            |

### Billing Hours

**Billing Hours**  
3

# PED110 - Fit and Well for Life Overview

### Course 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.

**Course ID**  
S11789

### Credit Hours

**Credit Hours**  
2

|                        |              |
|------------------------|--------------|
| <b>Name</b>            | <b>Code</b>  |
| <b>Classroom Hours</b> | <b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>  |
| 1                      | 1            |

### Billing Hours

**Billing Hours**  
2

|                       |             |
|-----------------------|-------------|
| <b>Name</b>           | <b>Code</b> |
| <b>Lab/Shop Hours</b> | <b>LAB</b>  |
| <b>Contact Hours</b>  | <b>Load</b> |
| 2                     | 2           |

# PED113 - Aerobics I

## Overview

### Course 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.

### Course ID

S11650

### Credit Hours

Credit  
Hours  
1  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1  
1

# PED117 - Weight Training I

## Overview

### Course 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.

### Course ID

S11656

### Credit Hours

Credit  
Hours  
1  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1  
1

# PED118 - Weight Training II

## Overview

### Course Description

This course covers advanced levels of weight training. Emphasis is placed on meeting individual training goals and addressing weight training needs and interests. Upon completion, students should be able to establish and implement an individualized advanced weight training program.

Course ID  
S11783

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take PED-117       |
| Take PED-117;      |

# PED119 - Circuit Training

## Overview

### Course Description

This course covers the skills necessary to participate in a developmental fitness program. Emphasis is placed on the circuit training method which involves a series of conditioning timed stations arranged for maximum benefit and variety. Upon completion, students should be able to understand and appreciate the role of circuit training as a means to develop fitness.

Course ID  
S11692

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1

# PED120 - Walking for Fitness

## Overview

### Course 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.

**Course ID**  
S11072

### Credit Hours

**Credit Hours**  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

### Billing Hours

**Billing Hours**  
1

# PED122 - Yoga I

## Overview

### Course Description

This course introduces the basic discipline of yoga. Topics include proper breathing, relaxation techniques, and correct body positions. Upon completion, students should be able to demonstrate the procedures of yoga.

**Course ID**  
S11107

### Credit Hours

**Credit Hours**  
1

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

### Billing Hours

**Billing Hours**  
1

# PED123 - Yoga II

## Overview

### Course Description

This course introduces more detailed aspects of the discipline of yoga. Topics include breathing and physical postures, relaxation, and mental concentration. Upon completion, students should be able to demonstrate advanced procedures of yoga.

### Course ID

S11044

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Billing Hours

Billing  
Hour  
s  
Min:  
1

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take PED-122         |
| Take PED-122;        |

# PED125 - Self-Defense: Beginning

## Overview

### Course Description

This course is designed to aid students in developing rudimentary skills in self-defense. Emphasis is placed on stances, blocks, punches, and kicks as well as non-physical means of self-defense. Upon completion, students should be able to demonstrate basic self-defense techniques of a physical and non-physical nature.

### Course ID

S11023

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Billing Hours

Billing  
Hour  
s  
Min:  
1



# PED128 - Golf-Beginning

## Overview

### Course Description

This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment, swings for the short and long game, putting, and the rules and etiquette of golf. Upon completion, students should be able to perform the basic golf shots and demonstrate a knowledge of the rules and etiquette of golf.

Course ID  
S11067

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

# PED129 - Golf-Intermediate

## Overview

### Course Description

This course covers the more advanced phases of golf. Emphasis is placed on refining the fundamental skills and learning more advanced phases of the games such as club selection, trouble shots, and course management. Upon completion, students should be able demonstrate the knowledge and ability to play a recreational round of golf.

Course ID  
S11033

### Credit Hours

Credit  
Hours  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

Billing  
Hours  
1

## Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take PED-128         |
| Take PED-128;        |

# PED130 - Tennis-Beginning

## Overview

### Course 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.

**Course ID**  
S12680

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

**Billing Hours**  
1

# PED131 - Tennis-Intermediate

## Overview

### Course Description

This course emphasizes the refinement of playing skills. Topics include continuing the development of fundamentals, learning advanced serves, and strokes and pace and strategies in singles and doubles play. Upon completion, students should be able to play competitive tennis.

**Course ID**  
S12604

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 2        | 2    |

### Billing Hours

**Billing Hours**  
1

## Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take PED-130       |
| Take PED-130;      |

# PED143 - Volleyball-Beginning

## Overview

### Course 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.

**Course ID**  
S10153

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Billing Hours

**Billing Hours**  
1

# PED145 - Basketball-Beginning

## Overview

### Course Description

This course covers the fundamentals of basketball. Emphasis is placed on skill development, knowledge of the rules, and basic game strategy. Upon completion, students should be able to participate in recreational basketball.

**Course ID**  
S10128

### Credit Hours

**Credit Hours**  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Billing Hours

**Billing Hours**  
1

# PED149 - Flag Football

## Overview

### Course Description

This course introduces the fundamentals and rules of flag football. Emphasis is placed on proper techniques and strategies for playing in game situations. Upon completion, students should be able to participate in recreational flag football.

### Course ID

S10111

### Credit Hours

Credit  
Hours  
1  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
1  
Min:

# PED165 - Sport Science As a Career

## Overview

### Course Description

This course provides students with foundational knowledge about the study of physical activity and career opportunities within the discipline. Emphasis will be placed on the role of physical activity, the subdisciplines of the field, and possible career choices. Upon completion, students should have an understanding of the subdisciplines and employment opportunities within an Exercise and Sport Science program.

### Course ID

S25448

### Credit Hours

Credit  
Hours  
3  
Min:

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take one set: Set 1: DRE-097 Set 2: ENG-002 Set

3: BSP-4002 Set 4: ENG-111

Take DRE-097(S23642) ENG-002  
ENG-111(S25433) or BSP-4002(S25167);

PED170 - Backpacking

Overview

Course Description

This course covers the proper techniques for establishing a campsite, navigating in the wilderness, and planning for an overnight trip. Topics include planning for meals, proper use of maps and compass, and packing and dressing for extended periods in the outdoors. Upon completion, students should be able to identify quality backpacking equipment, identify the principles of no-trace camping, and successfully complete a backpacking experience.

Course ID  
S13081

Credit Hours

Credit  
Hours  
2  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

Billing Hours

Billing  
Hours  
2  
Min:  
1

PED172 - Outdoor Living

Overview

Course Description

This course is designed to acquaint the beginning camper with outdoor skills. Topics include camping techniques such as cooking and preserving food, safety, and setting up camp. Upon completion, students should be able to set up camp sites in field experiences using proper procedures.

Course ID  
S13042

Credit Hours

Credit  
Hours  
2  
Min:  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 1               | 1     |

Billing Hours

Billing  
Hours  
2  
Min:  
2

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

# PED210 - Team Sports

## Overview

### Course Description

This course introduces the fundamentals of popular American team sports. Emphasis is placed on rules, equipment, and motor skills used in various sports. Upon completion, students should be able to demonstrate knowledge of the sports covered.

**Course ID**  
S12519

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**1**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**1**

# PED211 - New Games

## Overview

### Course Description

This course includes explanation, demonstration, and participation in games that provide an alternative to traditional sports. Emphasis is placed on playing for pleasure rather than for competitive purposes. Upon completion, students should be able to participate and lead others in participating in non-competitive games.

**Course ID**  
S12438

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**1**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**1**

# PED216 - Indoor Cycling

## Overview

### Course Description

This course is designed to promote physical fitness through indoor stationary cycling. Emphasis is placed on pedaling techniques, safety procedures, and conditioning exercises necessary for cycling. Upon completion, students should have improved cardiovascular and muscular endurance and be able to design and participate in a cycling for fitness program.

**Course ID**  
S20842

### Credit Hours

**Credit Hours**  
1

|                       |                 |
|-----------------------|-----------------|
| <b>Name</b>           |                 |
| <b>Lab/Shop Hours</b> | <b>Code LAB</b> |
| <b>Contact Hours</b>  | <b>Load</b>     |
| 3                     | 3               |

### Billing Hours

**Billing Hours**  
1

# PED219 - Disc Golf

## Overview

### Course 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.

**Course ID**  
S22467

### Credit Hours

**Credit Hours**  
1

|                       |                 |
|-----------------------|-----------------|
| <b>Name</b>           |                 |
| <b>Lab/Shop Hours</b> | <b>Code LAB</b> |
| <b>Contact Hours</b>  | <b>Load</b>     |
| 2                     | 2               |

### Billing Hours

**Billing Hours**  
1

# PED233 - Ju-Jitsu

## Overview

### Course Description

This course introduces martial arts using the ju-jitsu form. Topics include proper conditioning exercises, proper terminology, historical foundations, etiquette, and drills. Upon completion, students should be able to perform skills and techniques related to this form of martial arts.

Course ID  
S20630

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1

# PED235 - Tai Chi

## Overview

### Course Description

This course introduces martial arts using the Tai Chi form. Topics include proper conditioning exercises, proper terminology, historical foundations, etiquette, and drills. Upon completion, students should be able to perform skills and techniques related to this form of martial arts.

Course ID  
S20632

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1



# PED252 - Officiating Baseball and Softball

## Overview

### Course Description

This course introduces the rules and techniques for sports officiating in baseball and softball. Emphasis is placed on officiating fundamentals and responsibilities. Upon completion, students should be able to demonstrate proper mechanics and knowledge of officiating procedures in baseball and softball.

**Course ID**  
S13122

### Credit Hours

**Credit Hours**  
Min:  
2

### Billing Hours

**Billing Hours**  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# PED254 - Coaching Basketball

## Overview

### Course Description

This course introduces the theory and methods of coaching basketball. Emphasis is placed on rules, game strategies, and selected techniques of coaching basketball. Upon completion, students should be able to demonstrate competent coaching skills in basketball.

**Course ID**  
S13146

### Credit Hours

**Credit Hours**  
Min:  
2

### Billing Hours

**Billing Hours**  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# PED256 - Coaching Baseball

## Overview

### Course Description

This course introduces the theory and methods of coaching baseball. Emphasis is placed on rules, game strategies, and selected techniques of coaching baseball. Upon completion, students should be able to demonstrate competent coaching skills in baseball.

**Course ID**  
S13107

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

**Billing Hours**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# PED259 - Prevention & Care of Athletic Injuries

## Overview

### Course Description

This course provides information on the prevention and care of athletic injuries. Topics include safety devices, taping, therapeutic techniques, and conditioning exercises. Upon completion, students should be able to demonstrate proper preventive measures and skills in caring for athletic injuries.

**Course ID**  
S13182

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

**Billing Hours**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# PHI210 - History of Philosophy

## Overview

### Course Description

This course introduces fundamental philosophical issues through an historical perspective. Emphasis is placed on such figures as Plato, Aristotle, Lao-Tzu, Confucius, Augustine, Aquinas, Descartes, Locke, Kant, Wollstonecraft, Nietzsche, and Sartre. Upon completion, students should be able to identify and distinguish among the key positions of the philosophers studied.

### Course ID

S14081

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take ENG-111          |
| Take ENG-111(S13673); |

# PHI215 - Philosophical Issues

## Overview

### Course 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.

### Course ID

S24028

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take ENG-111          |
| Take ENG-111(S25433); |

# PHI220 - Western Philosophy I

## Overview

### Course Description

This course covers Western intellectual and philosophic thought from the early Greeks through the medievalists. Emphasis is placed on such figures as the pre-Socratics, Plato, Aristotle, Epicurus, Epictetus, Augustine, Suarez, Anselm, and Aquinas. Upon completion, students should be able to trace the development of leading ideas regarding reality, knowledge, reason, and faith.

**Course ID**  
S13045

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name           | Classroom | Code  |
|----------------|-----------|-------|
| Hours          |           | CLASS |
| <b>Contact</b> |           |       |
| Hours          | Load      |       |
| 3              | 3         |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                                    |
|------------------------------------|
| <b>State prerequisite</b>          |
| <b>Type</b><br><b>Prerequisite</b> |
| <b>Take ENG-111</b>                |
| Take ENG-111(S13673);              |

# PHI230 - Introduction to Logic

## Overview

### Course Description

This course introduces basic concepts and techniques for distinguishing between good and bad reasoning. Emphasis is placed on deduction, induction, validity, soundness, syllogisms, truth functions, predicate logic, analogical inference, common fallacies, and scientific methods. Upon completion, students should be able to analyze arguments, distinguish between deductive and inductive arguments, test validity, and appraise inductive reasoning.

**Course ID**  
S13741

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name           | Classroom | Code  |
|----------------|-----------|-------|
| Hours          |           | CLASS |
| <b>Contact</b> |           |       |
| Hours          | Load      |       |
| 3              | 3         |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                                    |
|------------------------------------|
| <b>State prerequisite</b>          |
| <b>Type</b><br><b>Prerequisite</b> |
| <b>Take ENG-111</b>                |

# PHI240 - Introduction to Ethics

## Overview

### Course 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.

**Course ID**  
S24029

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |

Take ENG-111  
Take ENG-111(S25433);

# PHM110 - Introduction to Pharmacy

## Overview

### Course Description

This course introduces pharmacy practice and the technician's role in a variety of pharmacy settings. Topics include medical terminology and abbreviations, drug delivery systems, law and ethics, prescription and medication orders, and the health care system. Upon completion, students should be able to explain the role of pharmacy technicians, read and interpret drug orders, describe quality assurance, and utilize pharmacy references.

**Course ID**  
S21732

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

Take PHM-110(S12770) PHM-115(S12800);

# PHM111 - Pharmacy Practice I

## Overview

### Course Description

This course provides instruction in the technical procedures for preparing and dispensing drugs in the hospital and retail settings under supervision of a registered pharmacist. Topics include drug packaging and labeling, out-patient dispensing, hospital dispensing procedures, controlled substance procedures, inventory control, and non-sterile compounding. Upon completion, students should be able to perform basic supervised dispensing techniques in a variety of pharmacy settings.

Course ID  
S12794

### Credit Hours

Credit  
Hours  
4

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
4

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 3       | 3        |      |

### Simple Requisites

State concurrent or previous courses

Type  
Corequisite

Take PHM-110 and PHM-115

# PHM115 - Pharmacy Calculations

## Overview

### Course Description

This course provides an introduction to the metric, avoirdupois, and apothecary systems of measurement and the calculations used in pharmacy practice. Topics include ratio and proportion, dosage determinations, percentage preparations, reducing and enlarging formulas, dilution and concentration, aliquots, specific gravity and density, and flow rates. Upon completion, students should be able to correctly perform calculations required to properly prepare a medication order.

### Course ID

S21733

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

| Recommended concurrent or previous courses |
|--------------------------------------------|
| Type                                       |
| Corequisite                                |

Take PHM-115A

Take PHM-115A;

# PHM115A - Pharmacy Calculations Lab

## Overview

### Course Description

This course provides an opportunity to practice and perform calculations encountered in pharmacy practice. Emphasis is placed on ratio and proportion, dosage calculations, percentage, reduction/enlargement formulas, aliquots, flow rates, and specific gravity/density. Upon completion, students should be able to perform the calculations required to properly prepare a medication order.

**Course ID**  
S12969

### Credit Hours

**Credit Hours**  
**1**

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

**Billing Hours**  
**1**

### Simple Requisites

|                                            |
|--------------------------------------------|
| Recommended concurrent or previous courses |
| Type                                       |
| Corequisite                                |
| Take PHM-115                               |
| Take PHM-115(S12800);                      |

# PHM118 - Sterile Products

## Overview

### Course Description

This course provides an introduction to intravenous admixture preparation and other sterile products, including total parenteral nutrition and chemotherapy. Topics include aseptic techniques; facilities, equipment, and supplies utilized in admixture preparation; incompatibility and stability; laminar flow hoods; immunizations and irrigation solutions; and quality assurance. Upon completion, students should be able to describe and demonstrate the steps involved in preparation of intermittent and continuous infusions, total parenteral nutrition, and chemotherapy.

**Course ID**  
S12780

### Credit Hours

**Credit Hours**  
**4**

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

**Billing Hours**  
**4**

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Simple Requisites

|                                            |
|--------------------------------------------|
| Recommended concurrent or previous courses |
| Type                                       |
| Corequisite                                |



**Take PHM-120 PHM-136**  
Take PHM-120 PHM-136;

**State prerequisite**  
**Type**  
**Prerequisite**  

**Take PHM-110 and PHM-111**  
Take PHM-110(S12770) PHM-111;

# PHM120 - Pharmacology I

## Overview

### Course Description

This course introduces the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include nutritional products, blood modifiers, hormones, diuretics, cardiovascular agents, respiratory drugs, and gastrointestinal agents. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names.

### Course ID

S13587

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   |           |       |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

**Prerequisite**  
**Type**  
**Prerequisite**  

**Take PHM-110 PHM-111;**  
Take PHM-110(S12770) PHM-111;

**Recommended concurrent or previous courses**

**Type**

**Corequisite**

**Take PHM-118 PHM-136**

Take PHM-118 PHM-136;

# PHM125 - Pharmacology II

## Overview

### Course Description

This course provides a continuation of the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include autonomic and central nervous system agents, anti-inflammatory agents, and anti-infective drugs. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names.

### Course ID

S13637

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

**Prerequisite**

**Type**

**Prerequisite**

**Take PHM-110 PHM-111**

Take PHM-110(S12770) PHM-111;

**Recommended concurrent or previous courses**

Type

Corequisite

Take PHM-133 PHM-140

Take PHM-140 PHM-133;

**State prerequisite**

Type

Prerequisite

Take PHM-120

Take PHM-120;

# PHM133 - Pharmacy Clinical

## Overview

**Course Description**  
This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers.

**Course ID**  
S11908

### Credit Hours

Credit  
Hours  
3  
Min:

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 9              | 9     |

### Billing Hours

Billing  
Hours  
3  
Min:

# PHM135 - Pharmacy Clinical

## Overview

### Course Description

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers.

### Course ID

S11888

### Credit Hours

Credit  
Hours  
5

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 15             | 15    |

### Billing Hours

Billing  
Hours  
5

# PHM136 - Pharmacy Clinical

## Overview

### Course Description

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers.

### Course ID

S11827

### Credit Hours

Credit  
Hours  
6

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 18             | 18    |

### Billing Hours

Billing  
Hours  
6

### Simple Requisites

#### Prerequisite

Type  
Prerequisite

Take PHM-110 PHM-111;  
Take PHM-110(S12770) PHM-111;

**Recommended concurrent or previous courses**

**Type**

**Corequisite**

**Take PHM-118 PHM-120**

Take PHM-118 PHM-120;

# PHM140 - Trends in Pharmacy

## Overview

**Course Description**  
This course covers the major issues, trends, and concepts in contemporary pharmacy practice. Topics include professional ethics, continuing education, job placement, and the latest developments in pharmacy technician practice. Upon completion, students should be able to demonstrate a basic knowledge of the topics discussed.

**Course ID**  
S13926

### Credit Hours

**Credit Hours**  
**Min:**  
2

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

**Billing Hours**  
**Min:**  
2

### Simple Requisites

**Prerequisite**

**Type**

**Prerequisite**

**Take PHM-110 PHM-111;**

Take PHM-110(S12770) PHM-111;

**Recommended concurrent or previous courses**

Type

Corequisite

Take PHM-125 PHM-133

Take PHM-125 PHM-133;

## PHM150 - Hospital Pharmacy

### Overview

#### Course Description

This course provides an in-depth study of hospital pharmacy practice. Topics include hospital organizational structure, committee functions, utilization of reference works, purchasing and inventory control, drug delivery systems, and intravenous admixture preparation. Upon completion, students should be able to explain hospital organization/committee functions, interpret and enter patient orders, fill unit-dose cassettes, and prepare intravenous admixtures.

Course ID  
S25333

#### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

#### Billing Hours

Billing  
Hour  
s  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 3       | 3        |      |

## PHM155 - Community Pharmacy

### Overview

#### Course Description

This course covers the operational procedures relating to retail pharmacy. Emphasis is placed on a general knowledge of over-the-counter products, prescription processing, business/inventory management, and specialty patient services. Upon completion, students should be able to provide technical assistance and support to the retail pharmacist.

Course ID  
S13388

#### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 2       | 2         |       |

#### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

#### Simple Requisites

Local Prerequisite

Type  
Prerequisite

Take PHM-110 PHM-111 PHM-125 and

**PHM-118**

Take PHM-110(S21732) PHM-111 PHM-125  
PHM-118;

**PHM160 - Pharmaceutical Dosage Forms**

**Overview**

**Course Description**

This course is a study of pharmaceutical dosage forms and considerations in their manufacture. Topics include bioavailability, routes of administration, tablets, capsules, solutions, syrups, suspensions, elixirs, aerosols, transdermals, topicals, ophthalmics, otics, and other dosage forms. Upon completion, students should be able to describe the characteristics of the major dosage forms and explain how these characteristics affect the action of the drug.

**Course ID**

**S13904**

**Credit Hours**

**Credit  
Hour  
s  
Min:  
3**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

**Billing Hours**

**Billing  
Hour  
s  
Min:  
3**

**Simple Requisites**

**Local Prerequisite**

**Type  
Prerequisite**

Take PHM-125 PHM-118

Take PHM-125 PHM-118;

# PHM165 - Pharmacy Professional Practice

## Overview

### Course Description

This course provides a general overview of all aspects of pharmacy technician practice. Emphasis is placed on pharmacy law, calculations, compounding, pharmacology, and pharmacy operations. Upon completion, students should be able to demonstrate competence in the areas required for the Pharmacy Technician Certification Examination.

**Course ID**  
S13870

### Credit Hours

**Credit Hours**  
2

|               |                |
|---------------|----------------|
| Name          | Classroom Code |
| Hours         | CLASS          |
| Contact Hours | Load           |
| 2             | 2              |

### Billing Hours

**Billing Hours**  
2

# PHM265 - Professional Issues

## Overview

### Course Description

This course provides a comprehensive discussion of topics common to the practice of the pharmacy technician. Emphasis is placed on application of professional competencies including legal/ethical issues, leadership/management concepts and employability skills. Upon completion, students should be able to demonstrate competence in pharmacy workplace skills and leadership/management roles.

**Course ID**  
S22262

### Credit Hours

**Credit Hours**  
3

|               |                |
|---------------|----------------|
| Name          | Classroom Code |
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

**Billing Hours**  
3

## Simple Requisites

State prerequisite

Type Prerequisite

Take PHM-165

Take PHM-165;



# PHY110 - Conceptual Physics

## Overview

### Course 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.

Course ID  
S12004

### Credit Hours

Credit  
Hours  
3  
Contact  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Contact  
Min:  
3

### Simple Requisites

| Recommended concurrent or previous courses |
|--------------------------------------------|
| Type                                       |
| Corequisite                                |
| Take PHY-110A                              |
| Take PHY-110A;                             |

# PHY110A - Conceptual Physics Lab

## Overview

### Course 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.

Course ID  
S13531

### Credit Hours

Credit  
Hours  
1  
Contact  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

### Billing Hours

Billing  
Hours  
1  
Contact  
Min:  
1

### Simple Requisites

| State concurrent or previous courses |
|--------------------------------------|
| Type                                 |
| Corequisite                          |
| Take PHY-110                         |
| Take PHY-110;                        |

# PHY131 - Physics-Mechanics

## Overview

### Course 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.

**Course ID**  
**S23976**

### Credit Hours

**Credit Hours**  
**Min:**  
**4**

| Name                 | Classroom | Code        |
|----------------------|-----------|-------------|
| Hours                |           | CLASS       |
| <b>Contact Hours</b> |           | <b>Load</b> |
| 3                    |           | 3           |

### Billing Hours

**Billing Hours**  
**Min:**  
**4**

| Name                 | Lab/Shop | Code        |
|----------------------|----------|-------------|
| Hours                |          | LAB         |
| <b>Contact Hours</b> |          | <b>Load</b> |
| 2                    |          | 2           |

### Simple Requisites

#### Local English Prerequisite

**Type**  
**Prerequisite**

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2),

**RED-090, ENG-095, ENG-011, ENG-111 or ENG-025**

Take 1 group; # Take DRE-098(S23643); # Take ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

#### State prerequisite

**Type**  
**Prerequisite**

**Take One: MAT-121 or MAT-171**  
Take MAT-121(S23927) or MAT-171(S23934);

# PHY132 - Physics-Electricity & Magnetism

## Overview

### Course 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.

### Course ID

S13247

### Credit Hours

Credit  
Hours  
Min:  
4

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 3       | 3         |      |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take PHY-131

Take PHY-131(S13319);

Take MAT-171(S25432) or MAT-271(S23939);

# PHY151 - College Physics I

## Overview

### Course 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.

### Course ID

S24925

### Credit Hours

Credit Hours  
4

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing Hours  
4

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Simple Requisites

State prerequisite  
Type  
Prerequisite

Take One: MAT-171 or MAT-271

# PHY152 - College Physics II

## Overview

### Course 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.

### Course ID

S11553

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |

Take PHY-151

Take PHY-151(S16517);

# PHY251 - General Physics I

## Overview

### Course 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.

### Course ID

S12543

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |
| Take MAT-271       |

Take MAT-271(S13631);

### State concurrent or previous courses

#### Type

#### Corequisite

Take MAT-272

Take MAT-272(S13612);

# PHY252 - General Physics II

## Overview

### Course 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.

### Course ID

S12686

### Credit Hours

Credit  
Hour  
s  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |

Take All: MAT-272 and PHY-251

Take MAT-272(S13612) PHY-251(S12543);

# PLU110 - Modern Plumbing

## Overview

### Course Description

This course introduces the tools, equipment, and materials associated with the plumbing industry. Topics include safety, use and care of tools, recognition and assembly of fittings and pipes, and other related topics. Upon completion, students should be able to safely assemble various pipes and fittings in accordance with state code requirements.

### Course ID

S10579

### Credit Hours

Credit  
t  
Hour  
s  
Min:  
9

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 4         | 4     |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
9

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 15       | 15   |

# PLU120 - Plumbing Applications

## Overview

### Course Description

This course covers general plumbing layout, fixtures, and water heaters. Topics include drainage, waste and vent pipes, water service and distribution, fixture installation, water heaters, and other related topics. Upon completion, students should be able to safely install common fixtures and systems in compliance with state and local building codes.

**Course ID**  
S11704

### Credit Hours

**Credit Hours**  
9

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 4       |           | 4    |

### Billing Hours

**Billing Hours**  
9

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
|          |      |
| Contact  |      |
| Hours    | Load |
| 15       | 15   |

# PLU124 - Plumbing Business Operations

## Overview

### Course Description

This course introduces plumbing contractor and plumbing business regulations and success strategies. Topics include plumbing business organization, structure, operations, bonds and insurance, municipal and state licensure requirements, state examinations, ethical and legal issues, and best practices for ensuring successful plumbing business operations. Upon completion, students should be able to demonstrate how to develop and sustain a successful plumbing business.

**Course ID**  
S24934

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
|         |           |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

**Billing Hours**  
2



# PLU130 - Plumbing Systems

## Overview

### Course Description

This course covers the maintenance and repair of plumbing lines and fixtures. Emphasis is placed on identifying and diagnosing problems related to water, drain and vent lines, water heaters, and plumbing fixtures. Upon completion, students should be able to identify and diagnose needed repairs to the plumbing system.

Course ID  
S11016

### Credit Hours

Credit  
Hours  
6  
Min:

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 3       | 3         |      |

### Billing Hours

Billing  
Hours  
6  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 9       | 9        |      |

# PLU140 - Introduction to Plumbing Codes

## Overview

### Course Description

This course covers plumbing industry codes and regulations. Emphasis is placed on North Carolina regulations and the minimum requirements for plumbing materials and design. Upon completion, students should be able to research and interpret North Carolina plumbing codes.

Course ID  
S12595

### Credit Hours

Credit  
Hours  
2  
Min:

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

### Billing Hours

Billing  
Hours  
2  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 2       | 2        |      |

# PLU150 - Plumbing Diagrams

## Overview

### Course Description

This course introduces sketching diagrams and interpretation of blueprints applicable to the plumbing trades. Emphasis is placed on plumbing plans for domestic and/or commercial buildings. Upon completion, students should be able to sketch plumbing diagrams applicable to the plumbing trades.

**Course ID**  
S10118

### Credit Hours

**Credit Hour**  
**Hours**  
**Min:**  
**2**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 1         | 1     |

### Billing Hours

**Billing Hour**  
**Hours**  
**Min:**  
**2**

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

# PLU160 - Plumbing Estimates

## Overview

### Course Description

This course covers techniques for estimating quantities of materials and cost of installation for various types of plumbing systems. Topics include design of systems, codes, material take-offs, pricing, and public relations. Upon completion, students should be able to order materials needed for installation from a designed system.

**Course ID**  
S12176

### Credit Hours

**Credit Hour**  
**Hours**  
**Min:**  
**2**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 1         | 1     |

### Billing Hours

**Billing Hour**  
**Hours**  
**Min:**  
**2**

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

# PMT110 - Introduction to Project Management

## Overview

### Course Description

This course introduces project management fundamentals and principles for organizing, planning, implementing, and controlling nonroutine activities to achieve schedule, budget and performance objectives. Topics include project life cycles; work breakdown structures; responsibility matrixes; as well as planning and control methods such as PERT/CPM and Gantt charts. Upon completion, students should be able to demonstrate knowledge, strategies, and techniques needed to create and execute plans for project development and management.

**Course ID**  
S22221

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name           | Classroom | Code        |
|----------------|-----------|-------------|
| Hours          |           | CLASS       |
| <b>Contact</b> |           |             |
| <b>Hours</b>   |           | <b>Load</b> |
| 3              |           | 3           |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                     |
|---------------------|
| <b>Prerequisite</b> |
| <b>Type</b>         |
| <b>Prerequisite</b> |

Take BUS-110

Take BUS-110(S24149);

# POL110 - Introduction to Political Science

## Overview

### Course Description

This course introduces basic political concepts used by governments and addresses a wide range of political issues. Topics include political theory, ideologies, legitimacy, and sovereignty in democratic and non-democratic systems. Upon completion, students should be able to discuss a variety of issues inherent in all political systems and draw logical conclusions in evaluating these systems.

**Course ID**  
S13770

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name           | Classroom | Code        |
|----------------|-----------|-------------|
| Hours          |           | CLASS       |
| <b>Contact</b> |           |             |
| <b>Hours</b>   |           | <b>Load</b> |
| 3              |           | 3           |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# POL120 - American Government

## Overview

### Course 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.

**Course ID**  
S24030

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

**Billing Hours**  
3

# POL130 - State & Local Government

## Overview

### Course Description

This course includes state and local political institutions and practices in the context of American federalism. Emphasis is placed on procedural and policy differences as well as political issues in state, regional, and local governments of North Carolina. Upon completion, students should be able to identify and discuss various problems associated with intergovernmental politics and their effect on the community and the individual.

**Course ID**  
S14316

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

**Billing Hours**  
3

# POL210 - Comparative Government

## Overview

### Course Description

This course provides a cross-national perspective on the government and politics of contemporary nations such as Great Britain, France, Germany, and Russia. Topics include each country's historical uniqueness, key institutions, attitudes and ideologies, patterns of interaction, and current political problems. Upon completion, students should be able to identify and compare various nations' governmental structures, processes, ideologies, and capacity to resolve major problems.

**Course ID**  
**S14332**

### Credit Hours

**Credit**  
**Hours**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing**  
**Hours**  
**3**

# POL220 - International Relations

## Overview

### Course 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.

**Course ID**  
**S12877**

### Credit Hours

**Credit**  
**Hours**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing**  
**Hours**  
**3**

# POL250 - Introduction to Political Theory

## Overview

### Course Description

This course introduces students to normative political theory and examines basic questions and issues about the nature and purpose of politics. Emphasis is placed on the classical and modern political theories of Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Mill, and Marx. Upon completion, students should be able to discuss and evaluate normative political theories about the nature and purpose of politics.

**Course ID**  
S22932

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# PST120 - NCDPS Correctional Officer Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is the 160-hour Basic Correctional Officer training course regulated by the NC Criminal Justice Education and Training Standards Commission and required for certification as a state correctional officer with the NC Department of Public Safety. Official documentation of successful completion of the state-mandated training must be provided and retained on file.

**\*160 Hours Minimum Documented Training Required.**

**Course ID**  
S25267

### Credit Hours

**Credit Hours**  
8

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 6             | 6               |       |

### Billing Hours

**Billing Hours**  
8

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

# PST123 - NC Sheriffs' Telecom Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is the 47-hour Telecommunicator Certification Course regulated by the NC Sheriffs' Education and Training Standards Commission. Official documentation of successful completion of the state-mandated training must be provided and retained on file.

\*47 Hours Minimum Documented Training Required.

Course ID  
S25268

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
2

# PST124 - NC Sheriffs' Detention Officer Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is the 174-hour Detention Officer Certification Course regulated by the NC Sheriffs' Education and Training Standards Commission and required for certification as a detention officer. Official documentation of successful completion of the state-mandated training must be provided and retained on file. \*174 Hours Minimum Documented Training Required.

Course ID  
S25270

### Credit Hours

Credit  
Hours  
8

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 6       |           | 6     |

### Billing Hours

Billing  
Hours  
8

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 4       |          | 4    |

# PST125 - NC Basic Juvenile Justice Officer

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. This prior learning source is the 160-hour Basic Juvenile Justice Officer training course regulated by the NC Criminal Justice Education and Training Standards Commission and required for certification as a state juvenile justice officer with the NC Department of Public Safety. Official documentation of successful completion of the state-mandated training must be provided and retained on file.

**\*160 Hours Minimum Documented Training Required.**

**Course ID**  
**S25272**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**7**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   |           | 4     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**7**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   |          | 6    |

# PST126 - NC Basic Juvenile Justice Counselor Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. This prior learning source is the 162-hour Basic Juvenile Court Counselor training course regulated by the NC Criminal Justice Education and Training Standards Commission and required for certification as a state juvenile court counselor with the NC Department of Public Safety. Official documentation of successful completion of the state-mandated training must be provided and retained on file.

**\*162 Hours Minimum Documented Training Required.**

**Course ID**  
**S25273**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**7**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   |           | 4     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**7**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   |          | 6    |



# PST127 - NC Basic Probation Officer Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is the 216-hour Basic Probation Officer training course regulated by the NC Criminal Justice Education and Training Standards Commission and required for certification as a state correctional officer with the NC Department of Public Safety. Official documentation of successful completion of the state-mandated training must be provided and retained on file.

**\*216 Hours Minimum Documented Training Required.**

**Course ID**  
**S25274**

### Credit Hours

**Credit Hours**  
**Minimum:**  
**9**

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 6             | 6               |      |       |

### Billing Hours

**Billing Hours**  
**Minimum:**  
**9**

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
|               |                |      |     |
| Contact Hours | Load           |      |     |
| 6             | 6              |      |     |

# PST151 - NC Justice Academy Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Justice Academy-developed training that may be regulated by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Commission in support of law enforcement training in North Carolina. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

**\*16 Hours Minimum Documented Training Required.**

**Course ID**  
**S25275**

### Credit Hours

**Credit Hours**  
**Minimum:**  
**1**

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 1             | 1               |      |       |

### Billing Hours

**Billing Hours**  
**Minimum:**  
**1**

# PST152 - NC Justice Academy Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Justice Academy-developed training that may be regulated by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Commission in support of law enforcement training in North Carolina. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*48 Hours Minimum Documented Training Required.

Course ID  
S25276

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 2       |          | 2    |

# PST153 - NC Justice Academy Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Justice Academy-developed training that may be regulated by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Commission in support of law enforcement training in North Carolina. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*80 Hours Minimum Documented Training Required.

Course ID  
S25277

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 4       |          | 4    |

# PST154 - NC Justice Academy Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Justice Academy-developed training that may be regulated by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Commission in support of law enforcement training in North Carolina. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

**\*128 Hours Minimum Documented Training Required.**

**Course ID**  
**S25278**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**4**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**4**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 6              | 6        |

# PST155 - NC Justice Academy Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Justice Academy-developed training that may be regulated by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Commission in support of law enforcement training in North Carolina. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

**\*176 Hours Minimum Documented Training Required.**

**Course ID**  
**S25279**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 9              | 9        |

# PST156 - NC Justice Academy Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Justice Academy-developed training that may be regulated by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Commission in support of law enforcement training in North Carolina. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*224 Hours Minimum Documented Training Required.

Course ID  
S25280

### Credit Hours

Credit Hour  
s  
Min:  
6

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hour  
s  
Min:  
6

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 12            | 12             |      |

# PST157 - NC Justice Academy Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Justice Academy-developed training that may be regulated by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Commission in support of law enforcement training in North Carolina. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*272 Hours Minimum Documented Training Required.

Course ID  
S25282

### Credit Hours

Credit Hour  
s  
Min:  
7

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hour  
s  
Min:  
7

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 15            | 15             |      |

# PST158 - NC Justice Academy Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Justice Academy-developed training that may be regulated by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Commission in support of law enforcement training in North Carolina. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*320 Hours Minimum Documented Training Required.

Course ID  
S25283

### Credit Hours

Credit Hour  
s  
Min:  
8

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hour  
s  
Min:  
8

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 18            | 18             |      |

# PST159 - NC Justice Academy Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Justice Academy-developed training that may be regulated by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Commission in support of law enforcement training in North Carolina. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*368 Hours Minimum Documented Training Required.

Course ID  
S25285

### Credit Hours

Credit Hour  
s  
Min:  
9

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hour  
s  
Min:  
9

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 21            | 21             |      |

# PST161 - NC OSFM Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Office of State Fire Marshal regulated by the Fire and Rescue Commission under the NC Department of Insurance. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*16 Hours Minimum Documented Training Required.

Course ID  
S25288

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
1

# PST162 - NC OSFM Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Office of State Fire Marshal regulated by the Fire and Rescue Commission under the NC Department of Insurance. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*48 Hours Minimum Documented Training Required.

Course ID  
S25289

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 2        | 2    |

# PST163 - NC OSFM Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Office of State Fire Marshal regulated by the Fire and Rescue Commission under the NC Department of Insurance. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*80 Hours Minimum Documented Training Required.

### Course ID

S25291

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hours  
3  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 4        | 4    |

# PST164 - NC OSFM Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Office of State Fire Marshal regulated by the Fire and Rescue Commission under the NC Department of Insurance. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*128 Hours Minimum Documented Training Required.

### Course ID

S25293

### Credit Hours

Credit  
Hours  
4  
Min:

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
4  
Min:

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 6        | 6    |

# PST165 - NC OSFM Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Office of State Fire Marshal regulated by the Fire and Rescue Commission under the NC Department of Insurance. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*176 Hours Minimum Documented Training Required.

Course ID  
S25271

### Credit Hours

Credit  
Hour  
s  
Min:  
5

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   |           | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
5

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   |          | 9    |

# PST166 - NC OSFM Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Office of State Fire Marshal regulated by the Fire and Rescue Commission under the NC Department of Insurance. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*224 Hours Minimum Documented Training Required.

Course ID  
S25284

### Credit Hours

Credit  
Hour  
s  
Min:  
6

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   |           | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
6

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   |          | 12   |



# PST167 - NC OSFM Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Office of State Fire Marshal regulated by the Fire and Rescue Commission under the NC Department of Insurance. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*272 Hours Minimum Documented Training Required.

Course ID  
S25286

### Credit Hours

Credit  
Hours  
7

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
7

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 15       | 15   |

# PST168 - NC OSFM Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Office of State Fire Marshal regulated by the Fire and Rescue Commission under the NC Department of Insurance. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

\*320 Hours Minimum Documented Training Required.

Course ID  
S25287

### Credit Hours

Credit  
Hours  
8

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hours  
8

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 18       | 18   |

# PST169 - NC OSFM Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Office of State Fire Marshal regulated by the Fire and Rescue Commission under the NC Department of Insurance. Official documentation of successful completion of this training must be provided from the training delivery agency and retained on file.

**\*368 Hours Minimum Documented Training Required.**

**Course ID**  
**S25290**

### Credit Hours

**Credit Hour  
s  
Min:  
9**

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

**Billing Hour  
s  
Min:  
9**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 21      |          | 21   |

# PST171 - NCCCS Public Safety Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Community College System (NCCCS) continuing education regulated by the State Board of Community Colleges and accredited through Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Official documentation of successful completion of this training must be provided from the NCCCS and retained on file.

**\*16 Hours Minimum Documented Training Required.**

**Course ID**  
**S25292**

### Credit Hours

**Credit Hour  
s  
Min:  
1**

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

**Billing Hour  
s  
Min:  
1**

# PST172 - NCCCS Public Safety Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Community College System (NCCCS) continuing education regulated by the State Board of Community Colleges and accredited through Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Official documentation of successful completion of this training must be provided from the NCCCS and retained on file.

\*48 Hours Minimum Documented Training Required.

Course ID  
S25294

### Credit Hours

Credit  
Hours  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# PST173 - NCCCS Public Safety Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Community College System (NCCCS) continuing education regulated by the State Board of Community Colleges and accredited through Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Official documentation of successful completion of this training must be provided from the NCCCS and retained on file.

\*80 Hours Minimum Documented Training Required.

Course ID  
S25295

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 4             | 4              |      |

# PST174 - NCCCS Public Safety Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Community College System (NCCCS) continuing education regulated by the State Board of Community Colleges and accredited through Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Official documentation of successful completion of this training must be provided from the NCCCS and retained on file.

**\*128 Hours Minimum Documented Training Required.**

**Course ID**  
**S25297**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**4**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**4**

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 6             | 6              |      |

# PST175 - NCCCS Public Safety Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Community College System (NCCCS) continuing education regulated by the State Board of Community Colleges and accredited through Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Official documentation of successful completion of this training must be provided from the NCCCS and retained on file.

**\*176 Hours Minimum Documented Training Required.**

**Course ID**  
**S25298**

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 9             | 9              |      |

# PST176 - NCCCS Public Safety Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Community College System (NCCCS) continuing education regulated by the State Board of Community Colleges and accredited through Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Official documentation of successful completion of this training must be provided from the NCCCS and retained on file.

\*224 Hours Minimum Documented Training Required.

Course ID  
S25299

### Credit Hours

Credit  
Hour  
s  
Min:  
6

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 2         | 2    |

### Billing Hours

Billing  
Hour  
s  
Min:  
6

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          | Load |
| Hours   | 12       | 12   |

# PST177 - NCCCS Public Safety Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Community College System (NCCCS) continuing education regulated by the State Board of Community Colleges and accredited through Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Official documentation of successful completion of this training must be provided from the NCCCS and retained on file.

\*272 Hours Minimum Documented Training Required.

Course ID  
S25300

### Credit Hours

Credit  
Hour  
s  
Min:  
7

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 2         | 2    |

### Billing Hours

Billing  
Hour  
s  
Min:  
7

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          | Load |
| Hours   | 15       | 15   |

# PST178 - NCCCS Public Safety Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Community College System (NCCCS) continuing education regulated by the State Board of Community Colleges and accredited through Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Official documentation of successful completion of this training must be provided from the NCCCS and retained on file.

\*320 Hours Minimum Documented Training Required.

Course ID  
S25301

### Credit Hours

Credit Hour  
8

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hour  
8

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 18            | 18             |      |

# PST179 - NCCCS Public Safety Training

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is NC Community College System (NCCCS) continuing education regulated by the State Board of Community Colleges and accredited through Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Official documentation of successful completion of this training must be provided from the NCCCS and retained on file.

\*368 Hours Minimum Documented Training Required.

Course ID  
S25302

### Credit Hours

Credit Hour  
9

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing Hour  
9

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 21            | 21             |      |

# PST181 - NCDPS Unarmed Sec Guard Trg

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. This prior learning source is Unarmed Security Guard training regulated by NCDPS Private Protection Services. Official documentation of successful completion of the state-mandated training must be provided and retained on file.

**\*16 Hours Minimum Documented Training Required.**

**Course ID**  
**S25303**

### Credit Hours

**Credit Hours**  
**1**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 1         | 1     |

### Billing Hours

**Billing Hours**  
**1**

# PST182 - NCDPS Armed Security Officer Instructor

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is Armed Security Officer Training Firearms regulated by NCDPS Private Protection Services. Official documentation of successful completion of the state-mandated training must be provided and retained on file.

**\*40 Hours Minimum Documented Training Required.**

**Course ID**  
**S25304**

### Credit Hours

**Credit Hours**  
**2**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

**Billing Hours**  
**2**

# PST189 - NCDOJ Professional Certification Program

## Overview

### Course Description

This course is a mechanism for awarding prior learning credit for industry-recognized training and/or credentials. The prior learning source is the Professional Certificate program regulated by NCDOJ. A certificate of completion and associated transcript for the program must be provided and retained on file.

**Course ID**  
S25306

### Credit Hours

**Credit Hour**  
s  
Min:  
9

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
|         |           |      |
| Contact | Hours     | Load |
| 9       |           | 9    |

### Billing Hours

**Billing Hour**  
s  
Min:  
9

# PSY118 - Interpersonal Psychology

## Overview

### Course Description

This course introduces the basic principles of psychology as they relate to personal and professional development. Emphasis is placed on personality traits, communication/leadership styles, effective problem solving, and cultural diversity as they apply to personal and work environments. Upon completion, students should be able to demonstrate an understanding of these principles of psychology as they apply to personal and professional development.

**Course ID**  
S11025

### Credit Hours

**Credit Hour**  
s  
Min:  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

**Billing Hour**  
s  
Min:  
3



# PSY150 - General Psychology

## Overview

### Course 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.

**Course ID**  
S10777

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
|         |           |      |
| Contact | Hours     | Load |
| 3       | 3         |      |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# PSY211 - Psychology of Adjustment

## Overview

### Course Description

This course introduces the study of the adjustment process focusing on contemporary challenges individuals must deal with in everyday life. Topics include theories of behavior, career choices, self-understanding, coping mechanisms, human relationships, intimacy, sociocultural factors influencing healthy personal adjustment, and other related topics. Upon completion, students should be able to demonstrate an awareness of the processes of adjustment.

**Course ID**  
S10085

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       | 3         |      |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take PSY-150

Take PSY-150;

# PSY215 - Positive Psychology

## Overview

### Course Description

This course is an overview of the scientific study of human strengths. Topics include resilience, optimism, vital engagement (flow), positive relationships, creativity, wisdom, happiness, empathy, emotional intelligence, and other relevant topics. Upon completion, students should be able to demonstrate an understanding of the psychological factors relevant to enhancing well being.

Course ID  
S22044

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom Code |
|---------|----------------|
| Hours   | CLASS          |
| Contact | Load           |
| Hours   |                |
| 3       | 3              |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take PSY-150

Take PSY-150;

# PSY231 - Forensic Psychology

Take PSY-150;

## Overview

### Course 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.

### Course ID

S20489

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take PSY-150       |

# PSY237 - Social Psychology

## Overview

### Course 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.

Course ID  
S10878

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                              |
|------------------------------|
| State prerequisite           |
| Type<br>Prerequisite         |
| Take One: PSY-150 or SOC-210 |
| Take PSY-150 or SOC-210;     |

# PSY239 - Psychology of Personality

## Overview

### Course Description

This course covers major personality theories and personality research methods. Topics include psychoanalytic, behavioristic, social learning, cognitive, humanistic, and trait theories including supporting research. Upon completion, students should be able to compare and contrast traditional and contemporary approaches to the understanding of individual differences in human behavior.

Course ID  
S10904

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take PSY-150         |
| Take PSY-150;        |

# PSY241 - Developmental Psychology

## Overview

### Course 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.

**Course ID**  
S13114

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take PSY-150       |
| Take PSY-150;      |

# PSY243 - Child Psychology

## Overview

### Course Description

This course provides an overview of physical, cognitive, and psychosocial development from conception through adolescence. Topics include theories and research, interaction of biological and environmental factors, language development, learning and cognitive processes, social relations, and moral development. Upon completion, students should be able to identify typical and atypical childhood behavior patterns as well as appropriate strategies for interacting with children.

**Course ID**  
S13165

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take PSY-150       |

# PSY246 - Adolescent Psychology

## Overview

### Course Description

This course provides an overview of the behavior patterns, life changes, and social issues that accompany the developmental stage of adolescence. Topics include developmental theories; physical, cognitive and psychosocial growth; transitions to young adulthood; and sociocultural factors that influence adolescent roles in home, school and community. Upon completion, students should be able to identify typical and atypical adolescent behavior patterns as well as appropriate strategies for interacting with adolescents.

### Course ID

S13226

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |

Take PSY-150

Take PSY-150;

# PSY249 - Psychology of Aging

## Overview

### Course Description

This course covers the particular needs and behaviors of the maturing adult. Emphasis is placed on psychosocial processes; biological and intellectual aspects of aging; adjustments to retirement, dying, bereavement; and the stereotypes and misconceptions concerning the elderly. Upon completion, students should be able to show an understanding of the psychological factors related to the aging process.

Course ID  
S13106

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom Code |
|---------|----------------|
| Hours   | CLASS          |
| Contact | Load           |
| 3       | 3              |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take PSY-150       |
| Take PSY-150;      |

# PSY259 - Human Sexuality

## Overview

### Course Description

This course provides the biological, psychological, and sociocultural aspects of human sexuality and related research. Topics include reproductive biology, sexual and psychosexual development, sexual orientation, contraception, sexually transmitted diseases, sexual disorders, theories of sexuality, and related issues. Upon completion, students should be able to demonstrate an overall knowledge and understanding of human sexuality.

Course ID  
S10448

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom Code |
|---------|----------------|
| Hours   | CLASS          |
| Contact | Load           |
| 3       | 3              |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take PSY-150       |
| Take PSY-150;      |

Take PSY-150;

# PSY263 - Educational Psychology

## Overview

### Course Description

This course examines the application of psychological theories and principles to the educational process and setting. Topics include learning and cognitive theories, achievement motivation, teaching and learning styles, teacher and learner roles, assessment, and developmental issues. Upon completion, students should be able to demonstrate an understanding of the application of psychological theory to educational practice.

### Course ID

S11448

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

State prerequisite  
Type  
Prerequisite

Take PSY-150



Take PSY-150;

# PSY265 - Behavioral Modification

## Overview

### Course Description

This course is an applied study of factors influencing human behavior and strategies for behavioral change. Emphasis is placed on cognitive-behavioral theory, behavioral assessment, practical applications of conditioning techniques, and maintenance of adaptive behavior patterns. Upon completion, students should be able to implement basic learning principles to effect behavioral changes in self and others.

### Course ID

S11424

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

Billing  
Hours  
3

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take PSY-150       |

# PSY271 - Sports Psychology

## Overview

### Course Description

This course provides an overview of the field of sports and exercise psychology. Topics include concentration, goal setting, arousal level, exercise psychology, mental imagery, confidence, and other issues related to sport and exercise performance. Upon completion, students should be able to demonstrate a knowledge of psychological factors involved in sport and exercise.

### Course ID

S11142

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take PSY-150         |
| Take PSY-150;        |

# PSY275 - Health Psychology

## Overview

### Course Description

This course covers the biopsychosocial dynamics of stress and the maintenance of good health. Topics include enhancing health and well-being, stress management, lifestyle choices and attitudes, the mind-body relationship, nutrition, exercise, and fitness. Upon completion, students should be able to demonstrate an understanding of the psychological factors related to health and well-being.

### Course ID

S11131

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                      |
|----------------------|
| State prerequisite   |
| Type<br>Prerequisite |
| Take PSY-150         |
| Take PSY-150;        |

# PSY281 - Abnormal Psychology

## Overview

### Course 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.

### Course ID

S12906

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom Code |
|---------|----------------|
| Hours   | CLASS          |
| Contact | Load           |
| Hours   |                |
| 3       | 3              |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

### Simple Requisites

| State prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take PSY-150

Take PSY-150;

# PTE110 - Pathways to Employment-Construction

## Overview

### Course Description

This course introduces fundamental employment core skillsets required to effectively enter the construction workforce and/or a registered apprenticeship and may also serve as a component of a pre-apprenticeship. Topics include workplace safety, communication skills, industry overview, tools and equipment, computation and financial literacy, materials, employability skills, personal health, career exploration and pathways including apprenticeship, job preparation and required job skills, and site visits. Upon completion, students should be able to explain how to locate and engage employers, present themselves in a professional manner, perform basic on-the-job skills, pursue necessary job-specific training and/or certification, and enter a construction career with the knowledge required to be successfully employed.

**Course ID**  
S25628

### Credit Hours

**Credit Hour**  
**3**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**3**

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# PTE112 - Pathway to Employment-Public Safety

## Overview

### Course Description

This course introduces fundamental employment core skillsets required to effectively enter the public safety workforce and/or a registered apprenticeship and may also serve as a component of a pre-apprenticeship. Topics include workplace safety, communication skills, industry overview, tools and equipment, computation and financial literacy, employability skills, personal health, career exploration and pathways including apprenticeship, job preparation and required job skills, and site visits. Upon completion, students should be able to explain how to locate and engage employers, present themselves in a professional manner, perform basic on-the-job skills, pursue necessary job-specific training and/or certification, and enter a public safety career with the knowledge required to be successfully employed.

**Course ID**  
S25630

### Credit Hours

**Credit Hour**  
**3**

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
**3**

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# RAD110 - Radiography Introduction & Patient Care

## Overview

### Course Description

This course provides an overview of the radiography profession and student responsibilities. Emphasis is placed on basic principles of patient care, radiation protection, technical factors, and medical terminology. Upon completion, students should be able to demonstrate basic skills in these areas.

**Course ID**  
S25783

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 2               | Load | 2     |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 3              | Load | 3   |

# RAD111 - RAD Procedures I

## Overview

### Course Description

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the chest, abdomen, extremities, bony thorax and pelvis. Upon completion, students should be able to demonstrate competence in these areas.

**Course ID**  
S24943

### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 3               | Load | 3     |

### Billing Hours

**Billing Hours**  
4

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 3              | Load | 3   |

### Simple Requisites

#### Local Corequisite

**Type**  
**Corequisite**

**RAD-110 RAD-151**

Take RAD-110(S13079) RAD-151(S12925);

# RAD112 - RAD Procedures II

## Overview

### Course Description

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the skull, spine, and gastrointestinal, biliary, and urinary systems. Upon completion, students should be able to demonstrate competence in these areas.

### Course ID

S25784

### Credit Hours

Credit  
Hours  
3  
Min:  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

# RAD113 - Radiography Laboratory Elective

## Overview

### Course Description

This course provides additional laboratory opportunities in radiologic technology. Emphasis is placed on radiographic procedures and manipulation of equipment. Upon completion, students should be able to demonstrate competence in radiographic procedures through laboratory evaluations.

### Course ID

S24959

### Credit Hours

Credit  
Hours  
1  
Min:  
1

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Billing Hours

Billing  
Hours  
1  
Min:  
1

# RAD121 - Image Production I

## Overview

### Course Description

This course provides the basic principles of radiographic image production. Emphasis is placed on image production, x-ray equipment, receptor exposure, and basic imaging quality factors. Upon completion, students should be able to demonstrate an understanding of basic principles of radiographic image production.

**Course ID**  
S25785

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

# RAD122 - Image Production II

## Overview

### Course Description

This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on advanced digital principles and production. Upon completion, students should be able to demonstrate an understanding of advanced principles of digital imaging production.

**Course ID**  
S25786

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hours**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

# RAD141 - Radiation Safety

## Overview

### Course Description

This course covers the principles of radiation protection and radiobiology. Topics include the effects of ionizing radiation on body tissues, protective measures for limiting exposure to the patient and personnel, and radiation monitoring devices. Upon completion, students should be able to demonstrate an understanding of the effects and uses of radiation in diagnostic radiology.

**Course ID**  
S25787

### Credit Hours

**Credit Hours**  
2

|                        |                      |
|------------------------|----------------------|
| <b>Name</b>            |                      |
| <b>Classroom Hours</b> | <b>Code</b><br>CLASS |
| <b>Contact Hours</b>   | <b>Load</b>          |
| 2                      | 2                    |

### Billing Hours

**Billing Hours**  
2

# RAD151 - RAD Clinical Ed I

## Overview

### Course Description

This course introduces patient management and basic radiographic procedures in the clinical setting. Emphasis is placed on mastering positioning of the chest and extremities, manipulating equipment, and applying principles of ALARA. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**Course ID**  
S25788

### Credit Hours

**Credit Hours**  
2

|                       |                      |
|-----------------------|----------------------|
| <b>Name</b>           |                      |
| <b>Clinical Hours</b> | <b>Code</b><br>CLINC |
| <b>Contact Hours</b>  | <b>Load</b>          |
| 6                     | 6                    |

### Billing Hours

**Billing Hours**  
2



# RAD161 - RAD Clinical Ed II

## Overview

### Course Description

This course provides additional experience in patient management and in more complex radiographic procedures. Emphasis is placed on mastering positioning of the spine, pelvis, head and neck, and thorax and adapting procedures to meet patient variations. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

### Course ID

S25789

### Credit Hours

Credit  
Hour  
s  
Min:  
5

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  | Load       |
| 15             | 15         |

### Billing Hours

Billing  
Hour  
s  
Min:  
5

# RAD171 - RAD Clinical Ed III

## Overview

### Course Description

This course provides experience in patient management specific to advanced radiographic procedures. Emphasis is placed on applying appropriate technical factors to all studies and transitioning to mastering positioning of advanced studies. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

### Course ID

S25790

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  | Load       |
| 9              | 9          |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# RAD182 - RAD Clinical Elective

## Overview

### Course Description

This course provides advanced knowledge of clinical applications. Emphasis is placed on enhancing clinical skills. Upon completion, students should be able to successfully complete the clinical course objectives.

Course ID  
S13921

### Credit Hours

Credit  
Hour  
s  
Min:  
2

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 6              | 6     |

### Billing Hours

Billing  
Hour  
s  
Min:  
2

# RAD211 - Radiographic Procedures III

## Overview

### Course Description

This course provides the knowledge and skills necessary to perform standard and specialty radiographic procedures. Emphasis is placed on radiographic specialty procedures, advanced imaging, radiographic pathology and image analysis. Upon completion, students should be able to demonstrate an understanding of these areas.

Course ID  
S25791

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

# RAD231 - Image Production III

## Overview

### Course Description

This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on complex imaging production and principles, quality control and quality assurance in the imaging sciences. Upon completion, students should be able to demonstrate an understanding of advanced radiographic equipment and quality control programs.

### Course ID

S25792

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   | 1         | CLASS |
| Contact | Hours     | Load  |
| Hours   | 1         | 1     |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | 3        | LAB  |
| Contact | Hours    | Load |
| Hours   | 3        | 3    |

# RAD251 - RAD Clinical Ed IV

## Overview

### Course Description

This course provides the opportunity to continue mastering all basic radiographic procedures and to attain experience in advanced areas. Emphasis is placed on equipment operation, pathological recognition, pediatric and geriatric variations, and further awareness of radiation protection requirements. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

### Course ID

S25793

### Credit Hours

Credit  
Hours  
7

| Name    | Clinical | Code  |
|---------|----------|-------|
| Hours   | 21       | CLINC |
| Contact | Hours    | Load  |
| Hours   | 21       | 21    |

### Billing Hours

Billing  
Hours  
7

# RAD261 - Radiographic Clinical Education V

## Overview

### Course Description

This course is designed to enhance expertise in all radiographic procedures, patient management, radiation protection, and image production and evaluation. Emphasis is placed on developing an autonomous approach to the diversity of clinical situations and successfully adapting to those procedures. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**Course ID**  
S25794

### Credit Hours

**Credit Hours**  
7

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  | Load       |
| 21             | 21         |

### Billing Hours

**Billing Hours**  
7

# RAD271 - Radiography Capstone

## Overview

### Course Description

This course provides an opportunity to exhibit problem-solving skills required for certification. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should be able to demonstrate the knowledge required of an entry-level radiographer.

**Course ID**  
S25795

### Credit Hours

**Credit Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hours**  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 3              | 3        |

# RAD281 - RAD Clinical Elective

## Overview

### Course Description

This course provides advanced knowledge of clinical applications. Emphasis is placed on enhancing clinical skills. Upon completion, students should be able to successfully complete the clinical course objectives.

Course ID  
S13793

### Credit Hours

Credit  
Hours  
3  
Min:  
1

|                |       |
|----------------|-------|
| Name           | Code  |
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 3              | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
1

### Simple Requisites

|                       |
|-----------------------|
| Prerequisite          |
| Type                  |
| Prerequisite          |
| Take RAD-161;         |
| Take RAD-161(S13703); |

# REL110 - World Religions

## Overview

### Course 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.

Course ID  
S13256

### Credit Hours

Credit  
Hours  
3  
Min:  
3

|                 |       |
|-----------------|-------|
| Name            | Code  |
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 3               | 3     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

# REL111 - Eastern Religions

## Overview

### Course 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.

Course ID  
S13358

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3

# REL112 - Western Religions

## Overview

### Course Description

This course introduces the major western religious traditions. Topics include Zoroastrianism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied.

Course ID  
S13280

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

Billing  
Hours  
3

# REL211 - Introduction to Old Testament

## Overview

### Course 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.

**Course ID**  
S11707

### Credit Hours

**Credit Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# REL212 - Introduction to New Testament

## Overview

### Course 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.

**Course ID**  
S11723

### Credit Hours

**Credit Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# REL221 - Religion in America

## Overview

### Course Description

This course is an examination of religious beliefs and practice in the United States. Emphasis is placed on mainstream religious traditions and non-traditional religious movements from the Colonial period to the present. Upon completion, students should be able to recognize and appreciate the diversity of religious traditions in America.

**Course ID**  
S11026

### Credit Hours

**Credit Hour**  
**Hours**  
**Min:**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing**  
**Hour**  
**Hours**  
**Min:**  
3

### Simple Requisites

**Local English Prerequisite**

**Type**  
**Prerequisite**

Take DRE-098, ENG-002(with minimum grade of P2), BSP-4002 (with minimum grade of P2), RED-090, ENG-095, ENG-011, ENG-111 or ENG-025

Take 1 group; # Take DRE-098(S23643); # Take

ENG-002; From rule RMINP2; # Take BSP-4002(S25167); From rule BSPMINP2; # Take RED-090; # Take ENG-095; # Take ENG-011; # Take ENG-111(S26393); # Take ENG-025;

# SAB110 - Intro to Addiction & Recovery Studies

## Overview

### Course 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.

**Course ID**  
S26368

### Credit Hours

**Credit**  
**Hour**  
**Hours**  
**Min:**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing**  
**Hour**  
**Hours**  
**Min:**  
3



# SAB120 - Intake and Assessment

## Overview

### Course 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.

**Course ID**  
S26369

### Credit Hours

**Credit Hours**  
3

|                       |              |
|-----------------------|--------------|
| <b>Name</b>           |              |
| <b>Classroom Code</b> |              |
| <b>Hours</b>          | <b>CLASS</b> |
| <b>Contact Hours</b>  | <b>Load</b>  |
| <b>3</b>              | <b>3</b>     |

### Billing Hours

**Billing Hours**  
3

# SAB135 - Addictive Process Overview

### Course 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.

**Course ID**  
S26372

### Credit Hours

**Credit Hours**  
3

|                       |              |
|-----------------------|--------------|
| <b>Name</b>           |              |
| <b>Classroom Code</b> |              |
| <b>Hours</b>          | <b>CLASS</b> |
| <b>Contact Hours</b>  | <b>Load</b>  |
| <b>3</b>              | <b>3</b>     |

### Billing Hours

**Billing Hours**  
3

# SAB137 - Co-Dependency

## Overview

### Course Description

This course introduces codependent relationships and their effects on the addictive process. Emphasis is placed on treatment and recovery within the context of a paradigm shift which allows the individual to choose a healthy model of life. Upon completion, students should be able assess levels of codependency and associated levels of physical and mental health and develop strategies to enhance health.

**Course ID**  
S26373

### Credit Hours

**Credit Hours**  
3

|                |                  |             |
|----------------|------------------|-------------|
| <b>Name</b>    | <b>Classroom</b> | <b>Code</b> |
| <b>Hours</b>   | <b>CLASS</b>     |             |
| <b>Contact</b> | <b>Hours</b>     | <b>Load</b> |
| <b>3</b>       | <b>3</b>         | <b>3</b>    |

### Billing Hours

**Billing Hours**  
3

# SAB210 - Addiction & Recovery Counseling

## Overview

### Course 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.

**Course ID**  
S25826

### Credit Hours

**Credit Hours**  
3

|                |                  |             |
|----------------|------------------|-------------|
| <b>Name</b>    | <b>Classroom</b> | <b>Code</b> |
| <b>Hours</b>   | <b>CLASS</b>     |             |
| <b>Contact</b> | <b>Hours</b>     | <b>Load</b> |
| <b>2</b>       | <b>2</b>         | <b>2</b>    |

### Billing Hours

**Billing Hours**  
3

|                |                 |             |
|----------------|-----------------|-------------|
| <b>Name</b>    | <b>Lab/Shop</b> | <b>Code</b> |
| <b>Hours</b>   | <b>LAB</b>      |             |
| <b>Contact</b> | <b>Hours</b>    | <b>Load</b> |
| <b>2</b>       | <b>2</b>        | <b>2</b>    |

# SAB240 - Diversity, Ethics, & Trends in Addiction & Recovery

## Overview

### Course 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.

**Course ID**  
S26379

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# SEC110 - Security Concepts

## Overview

### Course 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.

**Course ID**  
S23204

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

Take NET-125(S24501) CET-130  
SEC-110(S23204);

# SEC160 - Security Administration I

## Overview

### Course Description

This course provides an overview of security administration and fundamentals of designing security architectures. Topics include networking technologies, TCP/IP concepts, protocols, network traffic analysis, monitoring, and security best practices. Upon completion, students should be able to identify normal network traffic using network analysis tools and design basic security defenses.

**Course ID**  
S24399

### Credit Hours

**Credit Hour**  
**3**

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**3**

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 2       |          | 2    |

### Simple Requisites

**Local Prerequisites**  
**Type**  
**Prerequisite**

NET-125 CET-130 SEC-110

# SEC175 - Perimeter Defense

## Overview

### Course 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.

### Course ID

S24507

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 4       |          | 4    |

### Simple Requisites

| Local Prerequisites                  |
|--------------------------------------|
| Type<br>Prerequisite                 |
| Take SEC-110 NET-125 NET-126         |
| Take SEC-110(S23204) NET-125(S24501) |

# SGD111 - Introduction to Simulation and Game Development

## Overview

### Course Description

This course provides students with an introduction to simulation and game development. Topics include setting, storytelling, narrative, character design, interface design, game play, internal economy, core mechanics, game genres, AI, the psychology of game design and professionalism. Upon completion, students should be able to demonstrate knowledge of the major aspects of simulation and game design and development.

### Course ID

S21240

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

# SGD112 - SGD Design I

## Overview

### Course 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.

### Course ID

S25761

### Credit Hours

Credit  
Hour  
s  
Min:  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

# SGD113 - SGD Programming I

## Overview

### Course 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.

### Course ID

S25762

### Credit Hours

Credit  
Hour  
s  
Min:  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

# SGD114 - SGD 3D Modeling I

## Overview

### Course Description

This course introduces the tools required to create three-dimensional (3D) models. Emphasis is placed on exploring tools used to create 3D models. Upon completion, students should be able to create and animate 3D models using 3D modeling tools.

**Course ID**  
S25763

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                        |                             |
|------------------------|-----------------------------|
| <b>Name</b>            |                             |
| <b>Classroom Hours</b> | <b>Code</b><br><b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>                 |
| <b>2</b>               | <b>2</b>                    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

|                       |                           |
|-----------------------|---------------------------|
| <b>Name</b>           |                           |
| <b>Lab/Shop Hours</b> | <b>Code</b><br><b>LAB</b> |
| <b>Contact Hours</b>  | <b>Load</b>               |
| <b>3</b>              | <b>3</b>                  |

# SGD116 - SGD Graphic Design Tools

## Overview

### Course Description

This course introduces students to computer-based graphic design tools and their use within the context of simulation and game design. Topics include texture creation, map creation, and introduction to advanced level graphic design techniques. Upon completion, students should be able to competently use and explain industry-standard graphic design software.

**Course ID**  
S25764

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                        |                             |
|------------------------|-----------------------------|
| <b>Name</b>            |                             |
| <b>Classroom Hours</b> | <b>Code</b><br><b>CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>                 |
| <b>2</b>               | <b>2</b>                    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

|                       |                           |
|-----------------------|---------------------------|
| <b>Name</b>           |                           |
| <b>Lab/Shop Hours</b> | <b>Code</b><br><b>LAB</b> |
| <b>Contact Hours</b>  | <b>Load</b>               |
| <b>3</b>              | <b>3</b>                  |

# SGD117 - Art for Games

## Overview

### Course Description

This course introduces students to the basic principles of art and how they apply to simulations and games. Emphasis is placed on learning to develop industry quality concept art for characters and other assets, as well as techniques needed to create such art. Upon completion, students should be able to create their own industry standard concept art for use in SGD projects.

**Course ID**  
S22248

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>2</b>         | <b>2</b>     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

|                 |             |
|-----------------|-------------|
| <b>Name</b>     |             |
| <b>Lab/Shop</b> | <b>Code</b> |
| <b>Hours</b>    | <b>LAB</b>  |
| <b>Contact</b>  |             |
| <b>Hours</b>    | <b>Load</b> |
| <b>3</b>        | <b>3</b>    |

# SGD126 - Simulation and Game Engine Design

## Overview

### Course Description

This course introduces the techniques needed to design and create a simulation/game engine. Emphasis is placed on learning core techniques used to design and create simulation and/or game engines. Upon completion, students should be able to design and create a simulation or game engine.

**Course ID**  
S21248

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>2</b>         | <b>2</b>     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

|                 |             |
|-----------------|-------------|
| <b>Name</b>     |             |
| <b>Lab/Shop</b> | <b>Code</b> |
| <b>Hours</b>    | <b>LAB</b>  |
| <b>Contact</b>  |             |
| <b>Hours</b>    | <b>Load</b> |
| <b>3</b>        | <b>3</b>    |



# SGD134 - SGD Quality Assurance

## Overview

### Course Description

This course provides an introduction to software quality assurance as it relates to simulation and game development. Emphasis is placed on designing testing tools, bug databases, and on learning methodologies required for systematic, detail-oriented testing procedures for the simulation and game industry. Upon completion, students should be able to demonstrate the proper skills to obtain a job as a quality assurance tester in the simulation/game industry.

**Course ID**  
S26444

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

# SGD135 - Serious Games

## Overview

### Course Description

This course provides students with an overview of serious games and their applications in immersive learning and education. Emphasis is placed on developing games for education, corporate training, and medical/military simulations. Upon completion, students should be able to design their own serious games.

**Course ID**  
S22250

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

# SGD158 - SGD Business Management

## Overview

### Course Description

This course introduces the business side of the interactive game industry. Emphasis will be placed on licenses, serious games, psychological profiling, publisher/developer relations, and contract negotiation skills. Upon completion, students should be able to understand how a game evolves from concept to the customer.

**Course ID**  
S21909

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# SGD159 - SGD Production Management

## Overview

### Course Description

This course introduces the techniques and methods used in interactive game production and how to manage a project. Emphasis is placed on scheduling, production plans, marketing and budgeting. Upon completion, students should be able to manage a team, track production, and understand the process of project management.

**Course ID**  
S21910

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# SGD162 - SGD 3D Animation I

## Overview

### Course Description

This course introduces the fundamental principles of 3D animation used in simulation and game development. Emphasis is placed on a historical survey of 3D animation, aspects of the 3D animation techniques. Upon completion, students should be able to produce 3D character sketches, morph simple objects, create walk and run cycles and develop professional storyboards.

### Course ID

S25766

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

# SGD163 - SGD Documentation

## Overview

### Course Description

This course introduces the techniques and methods used to create simulation and game production and design documents. Emphasis is placed on the design document to include scheduling, production plans, marketing, and budgeting. Upon completion, students should be able to create, design, and produce documents for any simulation or game.

### Course ID

S25767

### Credit Hours

Credit Hours  
3

### Billing Hours

Billing Hours  
3

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

# SGD164 - SGD Audio/Video

## Overview

### Course Description

This course introduces various aspects of audio and video and their application in simulations and games. Topics include techniques for producing and editing audio and video for multiple digital mediums. Upon completion, students should be able to produce and edit audio and video for simulations and games.

Course ID  
S25768

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 2         | 2     |

### Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
|         | 3        | 3    |

# SGD167 - SGD Ethics

## Overview

### Course Description

This course introduces principles of philosophy and ethics as they relate to simulation and game development. Topics include moral philosophy and ethics. Upon completion, students should be able to discuss philosophical and ethical issues related to simulation and game development.

Course ID  
S25771

### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
|         | 3         | 3     |

### Billing Hours

Billing  
Hours  
3

# SGD168 - SGD Mobile Programming I

## Overview

### Course Description

This course introduces the mobile simulation and game programming process. Topics include mobile simulation/game programming, performance tuning, animation, sound effects, music, and mobile networks. Upon completion, students should be able to apply simulation/game programming concepts to the creation of mobile simulations and games.

**Course ID**  
S25772

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

# SGD174 - SGD Level Design I

## Overview

### Course Description

This course introduces the tools used to create levels for real-time simulation and games. Topics include level design, architecture theory, modeling for 3D engines, and texturing methods. Upon completion, students should be able to design simple levels using industry-standard tools.

**Course ID**  
S25775

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

# SGD212 - Simulation and Game Development Design II

## Overview

### Course Description

This course covers the advanced principles of simulation and game design. Topics include advanced design concepts in simulation and game development. Upon completion, students should be able to design an advanced simulation or game.

Course ID  
S21265

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take SGD-112          |
| Take SGD-112(S21241); |

# SGD213 - Simulation Game Development Programming II

## Overview

### Course Description

This course covers advanced programming concepts used to create simulations and games. Emphasis is placed on acquiring advanced programming skills for use in creating simulations and games. Upon completion, students should be able to program an advanced simulation or game.

Course ID  
S23019

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 2         | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          | Load |
| Hours   | 3        | 3    |

### Simple Requisites

|                                                |
|------------------------------------------------|
| State prerequisite                             |
| Type<br>Prerequisite                           |
| Take One: SGD-113, CSC-134, CSC-151 or CSC-153 |
| Take SGD-113(S21242) CSC-134(S21066)           |

CSC-151 or CSC-153;

# SGD214 - SGD 3D Modeling II

## Overview

### Course Description

This course introduces the tools used to create and animate advanced 3-dimensional models. Emphasis is placed on identifying and utilizing the tools required to create and animate advanced 3D models. Upon completion, students should be able to create and animate advanced 3D models using 3D modeling tools.

### Course ID

S25776

### Credit Hours

Credit Hours  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 2             | 2              |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 3             | 3             |

### Simple Requisites

| State prerequisite    |
|-----------------------|
| Type Prerequisite     |
| Take SGD-114          |
| Take SGD-114(S21243); |

Take SGD-162(S21250);

# SGD262 - Simulation and Game Development 3D Animation II

## Overview

### Course Description

This course is designed to further a student's knowledge of 3D animation used in simulation and game development. Emphasis is placed on advanced character, weapons, vehicles, prop and effects animations for video game design. Upon completion, students should be able to develop industry caliber animations for simulation or video game integration.

**Course ID**  
S25324

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom | Code  |
|---------------|-----------|-------|
| Hours         |           | CLASS |
| Contact Hours | Load      |       |
| 2             | 2         |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop | Code |
|---------------|----------|------|
| Hours         |          | LAB  |
| Contact Hours | Load     |      |
| 3             | 3        |      |

### Simple Requisites

**State prerequisite**  
**Type**  
**Prerequisite**

Take SGD-162



Take SGD-168(S23058);

# SGD268 - SGD Mobile Programming II

## Overview

### Course Description

This course introduces advanced mobile simulation and game programming processes. Topics include advanced mobile simulation/game platforms, performance tuning, animation, sound effects, music, and mobile networks. Upon completion, students should be able to apply advanced simulation/game programming concepts to the creation of mobile simulations and games.

Course ID  
S25778

### Credit Hours

Credit  
Hour  
s  
Min:  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

Billin  
g  
Hour  
s  
Min:  
3

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |
| Take SGD-168       |

# SGD274 - SGD Level Design II

## Overview

### Course Description

This course introduces the advanced tools used to create levels for real-time simulations and games. Topics include advanced-level guide and architecture theory, concepts related to "critical path" and "flow," game balancing, playtesting, and storytelling. Upon completion, students should be able to design complex levels using industry-standard tools.

Course ID  
S25779

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type<br>Prerequisite  |
| Take SGD-174          |
| Take SGD-174(S21264); |

# SGD285 - SGD Software Engineering

## Overview

### Course Description

This course introduces object-oriented software engineering concepts related to simulation and game development. Topics include systematic approaches to the development, operation and maintenance of simulations and games. Upon completion, students should be able to apply software engineering techniques to the development of simulations and games.

Course ID  
S25804

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

|                                        |
|----------------------------------------|
| State prerequisite                     |
| Type<br>Prerequisite                   |
| Take One: SGD-212, SGD-213, or SGD-214 |

Take SGD-212 SGD-213(S21266) or  
SGD-214(S21263);

# SGD288 - Simulation and Game Development Portfolio Design

## Overview

### Course Description

This course covers the organization and presentation of a simulation and game design portfolio and appropriate related materials. Emphasis is placed on development and evaluation of the portfolio, design and production of a resume and self-promotional materials, and interview techniques. Upon completion, students should be able to prepare and professionally present an effective portfolio and related self-promotional materials.

**Course ID**  
**S25697**

### Credit Hours

**Credit Hours**  
**2**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 1         | 1     |

### Billing Hours

**Billing Hours**  
**2**

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

### Simple Requisites

State concurrent or previous courses

Type

Corequisite

Take One SGD-212 SGD-213 OR SGD-214

Take SGD-212 SGD-213(S23019) or SGD-214(S21263);

# SGD289 - Simulation and Game Development Project

## Overview

**Course Description**  
This course provides students with the opportunity to create a functional simulation or game with minimal instructor support. Emphasis is placed upon verbal and written communication, skill documentation, professional presentation and user training. Upon completion, students should be able to create and professionally present a fully functional simulation or game.

**Course ID**  
S22278

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
|           |       |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
|          |      |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take One: SGD-212, SGD-213, SGD-214, or

**SGD-285**

Take SGD-212 SGD-213(S21266)  
SGD-214(S21263) or SGD-285(S22374);

# SOC210 - Introduction to Sociology

## Overview

### Course 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.

**Course ID**  
S11919

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# SOC213 - Sociology of the Family

## Overview

### Course 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.

**Course ID**  
S11798

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

# SOC215 - Group Processes

## Overview

### Course Description

This course introduces group processes and dynamics. Emphasis is placed on small group experiences, roles and relationships within groups, communication, cooperation and conflict resolution, and managing diversity within and among groups. Upon completion, students should be able to demonstrate the knowledge and skills essential to analyze group interaction and to work effectively in a group context.

**Course ID**  
S11859

### Credit Hours

**Credit Hours**  
3

|                        |                      |
|------------------------|----------------------|
| <b>Name</b>            |                      |
| <b>Classroom Hours</b> | <b>Code</b><br>CLASS |
| <b>Contact Hours</b>   | <b>Load</b>          |
| 3                      | 3                    |

### Billing Hours

**Billing Hours**  
3

# SOC220 - Social Problems

## Overview

### Course 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.

**Course ID**  
S13948

### Credit Hours

**Credit Hours**  
3

|                        |                      |
|------------------------|----------------------|
| <b>Name</b>            |                      |
| <b>Classroom Hours</b> | <b>Code</b><br>CLASS |
| <b>Contact Hours</b>   | <b>Load</b>          |
| 3                      | 3                    |

### Billing Hours

**Billing Hours**  
3

# SOC225 - Social Diversity

## Overview

### Course 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.

Course ID  
S13923

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# SOC230 - Race and Ethnic Relations

## Overview

### Course Description

This course includes an examination of the various aspects of race and ethnicity and how these lead to different experiences, opportunities, problems, and contributions. Topics include prejudice, discrimination, perceptions, myths, stereotypes, and intergroup relationships. Upon completion, students should be able to identify and analyze relationships among racial and ethnic groups within the larger society.

Course ID  
S13407

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# SOC232 - Social Context of Aging

## Overview

### Course Description

This course provides an overview of the social implications of the aging process. Emphasis is placed on the roles of older adults within families, work and economics, politics, religion, education, and health care. Upon completion, students should be able to identify and analyze changing perceptions, diverse lifestyles, and social and cultural realities of older adults.

**Course ID**  
S13373

### Credit Hours

**Credit Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hours**  
3

# SOC234 - Sociology of Gender

## Overview

### Course Description

This course examines contemporary roles in society with special emphasis on recent changes. Topics include sex role socialization, myths and stereotypes, gender issues related to family, work, and power. Upon completion, students should be able to analyze modern relationships between men and women.

**Course ID**  
S13427

### Credit Hours

**Credit Hours**  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hours**  
3



# SOC240 - Social Psychology

## Overview

### Course Description

This course examines the influence of culture and social groups on individual behavior and personality. Emphasis is placed on the process of socialization, communication, conformity, deviance, interpersonal attraction, intimacy, race and ethnicity, small group experiences, and social movements. Upon completion, students should be able to identify and analyze cultural and social forces that influence the individual in a society.

**Course ID**  
S13849

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

**Billing Hours**  
3

# SOC242 - Sociology of Deviance

## Overview

### Course Description

This course provides an overview of deviant behavior and the processes involved in its definition, causation, prevention, control, and treatment. Topics include theories of causation, social control, delinquency, victimization, criminality, the criminal justice system, punishment, rehabilitation, and restitution. Upon completion, students should be able to identify and analyze issues surrounding the nature and development of social responses to deviance.

**Course ID**  
S13866

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

**Billing Hours**  
3

# SOC244 - Sociology of Death & Dying

## Overview

### Course Description

This course presents sociological perspectives on death and dying. Emphasis is placed on analyzing the different death rates among various groups, races, and societies, as well as various types of death. Upon completion, students should be able to discuss the rituals of death, both cultural and religious, and examine current issues relating to death and dying.

### Course ID

S13843

### Credit Hours

Credit Hours  
3

| Name          | Classroom | Code  |
|---------------|-----------|-------|
| Hours         |           | CLASS |
| Contact Hours |           | Load  |
| 3             |           | 3     |

### Billing Hours

Billing Hours  
3

# SOC245 - Drugs and Society

## Overview

### Course Description

This course covers the impact of drugs on society and human behavior. Emphasis is placed on the construction of a modern social problem from contrasting historical responses to mind-altering substances. Upon completion, students should be able to apply sociological analysis in evaluating drug use as a societal and interpersonal problem.

### Course ID

S25449

### Credit Hours

Credit Hours  
3

| Name          | Classroom | Code  |
|---------------|-----------|-------|
| Hours         |           | CLASS |
| Contact Hours |           | Load  |
| 3             |           | 3     |

### Billing Hours

Billing Hours  
3

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take One Set: Set 1: DRE-098 and SOC-210 Set 2: ENG-002 and SOC-210 Set 3: BSP-4002 and SOC-210 Set 4: ENG-111 and SOC-210

Take 1 group; # Take DRE-098(S23643) SOC-210; # Take ENG-002 SOC-210; # Take

BSP-4002(S25167) SOC-210; # Take  
ENG-111(S25433) SOC-210;

## SOC250 - Sociology of Religion

### Overview

#### Course Description

This course examines religion from a sociological perspective as part and product of human society. Topics include the origins, development, and functions of belief systems; religious organizations; conversion; and interactions with politics, the economy, science, and the class system. Upon completion, students should be able to describe and analyze religious systems.

#### Course ID

S11715

#### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

#### Billing Hours

Billing  
Hours  
3

## SOC254 - Rural and Urban Sociology

### Overview

#### Course Description

This course applies sociological concepts to a comparative study of major social issues facing contemporary rural and urban America. Emphasis is placed on growth and development patterns, ecological factors, social organizations, social controls, and processes of change. Upon completion, students should be able to illustrate the differences and similarities that exist between urban and rural environments as they resolve contemporary issues.

#### Course ID

S11677

#### Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

#### Billing Hours

Billing  
Hours  
3

# SON110 - Introduction to Sonography

## Overview

### Course Description

This course provides an introduction to medical sonography. Topics include applications, sonographic terminology, history, patient care, ethics, and basic skills. Upon completion, students should be able to define professionalism and sonographic applications and perform basic patient care skills and preliminary scanning techniques.

**Course ID**  
S13282

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
|               |                 |       |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
|               |                |      |
| Contact Hours | Load           |      |
| 3             | 3              |      |

| Name          | Clinical Hours | Code  |
|---------------|----------------|-------|
|               |                | CLINC |
|               |                |       |
| Contact Hours | Load           |       |
| 3             | 3              |       |

# SON111 - Sonographic Physics Overview

### Course Description

This course introduces ultrasound physical principles, bioeffects, and sonographic instrumentation. Topics include sound wave mechanics, transducers, sonographic equipment, Doppler physics, bioeffects, and safety. Upon completion, students should be able to demonstrate knowledge of sound wave mechanics, transducers, sonography equipment, the Doppler effect, bioeffects, and safety.

**Course ID**  
S23619

### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
|               |                 |       |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
|               |                |      |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# SON120 - Sonography Clinical Education I

## Overview

### Course Description

This course provides active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**Course ID**  
S10505

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 15             | 15    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

### Simple Requisites

|                                                  |
|--------------------------------------------------|
| <b>State prerequisite</b>                        |
| <b>Type</b><br><b>Prerequisite</b>               |
| <div>Take SON-110</div> <div>Take SON-110;</div> |

# SON121 - Sonography Clinical Education II

## Overview

### Course Description

This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**Course ID**  
S10547

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**5**

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 15             | 15    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**5**

### Simple Requisites

|                                                  |
|--------------------------------------------------|
| <b>State prerequisite</b>                        |
| <b>Type</b><br><b>Prerequisite</b>               |
| <div>Take SON-120</div> <div>Take SON-120;</div> |

# SON130 - Abdominal Sonography I

## Overview

### Course Description

This course introduces abdominal and small parts sonography. Emphasis is placed on the sonographic anatomy of the abdomen and small parts with correlated laboratory exercises. Upon completion, students should be able to recognize and acquire basic abdominal and small parts images.

**Course ID**  
S11569

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# SON131 - Abdominal Sonography II

## Overview

### Course Description

This course covers abdominal and small parts pathology recognizable on sonograms. Emphasis is placed on abnormal sonograms of the abdomen and small parts with correlated sonographic cases. Upon completion, students should be able to recognize abnormal pathological processes in the abdomen and on small parts sonographic examinations.

**Course ID**  
S11608

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

## Simple Requisites

**State prerequisite**

**Type Prerequisite**

**Take SON-130**

Take SON-130;

# SON140 - Gynecological Sonography

## Overview

### Course Description

This course is designed to relate gynecological anatomy and pathology to sonography. Emphasis is placed on gynecological relational anatomy, endovaginal anatomy, and gynecological pathology. Upon completion, students should be able to recognize normal and abnormal gynecological sonograms.

**Course ID**  
S10950

### Credit Hours

**Credit Hours**  
2

| Name | Classroom Hours | Code  | Contact Hours | Load |
|------|-----------------|-------|---------------|------|
|      |                 | CLASS | 2             | 2    |

### Billing Hours

**Billing Hours**  
2

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |
| Take SON-110       |
| Take SON-110;      |

# SON220 - Sonography Clinical Education III

## Overview

### Course Description

This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**Course ID**  
S11100

### Credit Hours

**Credit Hours**  
8

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 24             | 24    |

### Billing Hours

**Billing Hours**  
8

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |
| Take SON-121       |
| Take SON-121;      |

# SON221 - Sonography Clinical Education IV

## Overview

### Course Description

This course provides continued active participation off campus in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**Course ID**  
S11048

### Credit Hours

**Credit Hours**  
8

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 24             | 24    |

### Billing Hours

**Billing Hours**  
8

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take SON-220       |
| Take SON-220;      |

# SON225 - Case Studies

## Overview

### Course Description

This course offers the opportunity to present interesting cases found during clinical education. Emphasis is placed on presentation methods which integrate patient history, laboratory results, and sonographic findings with reference to current literature. Upon completion, students should be able to correlate information necessary for complete presentation of case studies.

**Course ID**  
S16541

### Credit Hours

**Credit Hours**  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                              |
|------------------------------|
| State prerequisite           |
| Type Prerequisite            |
| Take One: SON-110 or CVS-163 |
| Take SON-110 or CVS-163;     |



Take SON-110;

# SON241 - Obstetrical Sonography I

## Overview

### Course Description

This course covers normal obstetrical sonography techniques, the normal fetal environment, and abnormal first trimester pregnancy states. Topics include gestational dating, fetal anatomy, uterine environment, and first trimester complications. Upon completion, students should be able to produce gestational sonograms which document age, evaluate the uterine environment, and recognize first trimester complications.

**Course ID**  
S10156

### Credit Hours

**Credit Hours**  
2

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 2       | 2         |      |

### Billing Hours

**Billing Hours**  
2

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |
| Take SON-110       |

# SON242 - Obstetrical Sonography II

## Overview

### Course Description

This course covers second and third trimester obstetrical complications and fetal anomalies. Topics include abnormal fetal anatomy and physiology and complications in the uterine environment. Upon completion, students should be able to identify fetal anomalies, fetal distress states, and uterine pathologies.

**Course ID**  
S10167

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 2         | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take SON-241       |
| Take SON-241;      |

# SON250 - Vascular Sonography

## Overview

### Course Description

This course provides an in-depth study of the anatomy and pathology of the vascular system. Topics include peripheral arterial, peripheral venous, and cerebrovascular disease testing. Upon completion, students should be able to identify normal vascular anatomy and recognize pathology of the vascular system.

**Course ID**  
S23622

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**2**

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
|         | 1         | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**2**

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
|         |          |      |
| Contact | Hours    | Load |
|         | 3        | 3    |

### Simple Requisites

|                       |
|-----------------------|
| Local Prerequisite    |
| Type Prerequisite     |
| Take SON-111(S23619); |
| Take SON-111(S23619); |

# SON272 - Advanced Pathology

## Overview

### Course Description

This course is designed to concentrate on complex pathological states seen on sonograms. Emphasis is placed on systemic diseases and multi-organ disease states as seen on sonograms. Upon completion, students should be able to research, present, and discuss system diseases presented on sonograms.

Course ID  
S13095

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take SON-110       |
| Take SON-110;      |

# SON289 - Sonographic Topics

## Overview

### Course Description

This course provides an overview of sonographic topics in preparation for certification examinations. Emphasis is placed on registry preparation. Upon completion, students should be able to demonstrate a comprehensive knowledge of sonography and be prepared for the registry examinations.

Course ID  
S22124

### Credit Hours

Credit  
Hours  
2

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 2               | 2     |

### Billing Hours

Billing  
Hours  
2

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take SON-110       |
| Take SON-110;      |

# SPA111 - Elementary Spanish I

## Overview

### Course 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.

**Course ID**  
S13047

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>3</b>         | <b>3</b>     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# SPA112 - Elementary Spanish II

## Overview

### Course 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.

**Course ID**  
S12995

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

|                  |              |
|------------------|--------------|
| <b>Name</b>      |              |
| <b>Classroom</b> | <b>Code</b>  |
| <b>Hours</b>     | <b>CLASS</b> |
| <b>Contact</b>   |              |
| <b>Hours</b>     | <b>Load</b>  |
| <b>3</b>         | <b>3</b>     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

### Simple Requisites

|                           |
|---------------------------|
| <b>State prerequisite</b> |
| <b>Type</b>               |
| <b>Prerequisite</b>       |
| <b>Take SPA-111</b>       |

Take SPA-111;

## SPA120 - Spanish for the Workplace

### Overview

#### Course 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.

**Course ID**  
S13709

#### Credit Hours

**Credit Hours**  
3

#### Billing Hours

**Billing Hours**  
3

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

## SPA141 - Culture and Civilization

### Overview

#### Course Description

This course provides an opportunity to explore issues related to the Hispanic world. Topics include historical and current events, geography, and customs. Upon completion, students should be able to identify and discuss selected topics and cultural differences related to the Hispanic world.

**Course ID**  
S11221

#### Credit Hours

**Credit Hours**  
3

#### Billing Hours

**Billing Hours**  
3

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

Take SPA-111;

# SPA161 - Cultural Immersion

## Overview

### Course Description

This course explores Hispanic culture through intensive study on campus and field experience in a host country or comparable area within the United States. Topics include an overview of linguistic, historical, geographical, sociopolitical, economic, and/or artistic concerns of the area visited. Upon completion, students should be able to exhibit first-hand knowledge of issues pertinent to the host area and demonstrate understanding of cultural differences.

### Course ID

S23680

### Credit Hours

Credit  
Hours  
3  
Min:  
3

|           |       |
|-----------|-------|
| Name      |       |
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

|          |      |
|----------|------|
| Name     |      |
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take SPA-111

# SPA181 - Spanish Lab 1

## Overview

### Course 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.

### Course ID

S13916

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

| Local Required Concurrent Or Previous Courses |
|-----------------------------------------------|
| Type<br>Corequisite                           |
| Take SPA-111                                  |

# SPA182 - Spanish Lab 2

## Overview

### Course 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.

### Course ID

S24207

### Credit Hours

Credit  
Hours  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
1

### Simple Requisites

| Prerequisite         |
|----------------------|
| Type<br>Prerequisite |
| Take SPA-181         |
| Take SPA-181;        |

**Corequisite**  
Type  
**Corequisite**

**Take SPA-112**  
Take SPA-112;

**State prerequisite**  
Type  
**Prerequisite**

**Take SPA-111**  
Take SPA-111;

# SPA211 - Intermediate Spanish I

## Overview

### Course 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.

**Course ID**  
S11415

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
3

### Simple Requisites

**State prerequisite**  
Type  
**Prerequisite**

**Take SPA-112**  
Take SPA-112;



# SPA212 - Intermediate Spanish II

## Overview

### Course 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.

**Course ID**  
S11504

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 3         | 3    |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take SPA-211       |
| Take SPA-211;      |

# SPA215 - Spanish Phonetics/Structure

## Overview

### Course Description

This course is designed to improve the understanding of Spanish phonetics and the structure of the Spanish language. Topics include the structure of the Spanish language, phonology, morphology, and syntax. Upon completion, students should have an understanding of the phonetics and structure of the Spanish language and be able to contrast the structure of the Spanish and English languages.

**Course ID**  
S13285

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 3         | 3    |

### Billing Hours

**Billing Hours**  
3

# SPA221 - Spanish Conversation

## Overview

### Course Description

This course provides an opportunity for intensive communication in spoken Spanish. Emphasis is placed on vocabulary acquisition and interactive communication through the discussion of media materials and authentic texts. Upon completion, students should be able to discuss selected topics, express ideas and opinions clearly, and engage in formal and informal conversations.

**Course ID**  
S14295

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take SPA-212       |
| Take SPA-212;      |

# SPA231 - Reading and Composition

## Overview

### Course Description

This course provides an opportunity for intensive reading and composition in Spanish. Emphasis is placed on the use of literary and cultural materials to enhance and expand reading and writing skills. Upon completion, students should be able to demonstrate in writing an in-depth understanding of assigned readings.

**Course ID**  
S12741

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           | Load  |
| Hours   | 3         | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take SPA-212       |
| Take SPA-212;      |

# SPA281 - Spanish Lab 3

## Overview

### Course 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.

### Course ID

S25828

### Credit Hours

Credit  
Hours  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
Min:  
1

### Simple Requisites

Local Prerequisite

Type Prerequisite

TAKE SPA-182  
Take SPA-182(S24207);

State concurrent courses

Type

Corequisite

Take SPA-211

Take SPA-211;

# SPA282 - Spanish Lab 4

## Overview

### Course 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.

### Course ID

S25829

### Credit Hours

Credit  
Hours  
Min:  
1

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 2              | 2    |

### Billing Hours

Billing  
Hours  
Min:  
1

### Simple Requisites

Local Prerequisite

Type Prerequisite

Take SPA-281

Take SPA-281(S25828);

### State concurrent or previous courses

Type  
Corequisite

Take SPA-212

Take SPA-212;

# SPI113 - Introduction to Spanish Interpreter

## Overview

### Course Description

This course introduces the field of interpreting, interpretation models, cognitive processes associated with interpretation, professional ethical standards, employment opportunities, and working conditions. Topics include specialized jargon, code of ethics, interpreter assessments/qualifications, and protocol associated with various settings. Upon completion, students should be able to explain the rationale for placement of interpreters and apply ethical standards to a variety of working situations.

**Course ID**  
S12939

### Credit Hours

**Credit Hours**  
3

|                        |                   |
|------------------------|-------------------|
| <b>Name</b>            |                   |
| <b>Classroom Hours</b> | <b>Code CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>       |
| 3                      | 3                 |

### Billing Hours

**Billing Hours**  
3

# SPI114 - Ana.Skills Spanish Inter.

## Overview

### Course Description

This course is designed to improve cognitive processes associated with interpreting, listening, short-term memory, semantic equivalence, visual/auditory processing, thought organization and logic. Emphasis is placed on developing skills necessary to generate equivalent messages between Spanish and English. Upon completion, students should be able to consecutively interpret non-technical, interactive messages between Spanish and English.

**Course ID**  
S12853

### Credit Hours

**Credit Hours**  
3

|                        |                   |
|------------------------|-------------------|
| <b>Name</b>            |                   |
| <b>Classroom Hours</b> | <b>Code CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>       |
| 3                      | 3                 |

### Billing Hours

**Billing Hours**  
3

# SPI213 - Review of Grammar

## Overview

### Course Description

This course is designed to review the common elements of Spanish grammar in oral and written form. Emphasis is placed on the fundamental grammatical concepts of the Spanish language. Upon completion, students should be able to demonstrate comprehension and correct usage of specified grammatical concepts in both oral and written form.

Course ID  
S11896

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

Billing  
Hours  
3

# SPI214 - Introduction to Translation

## Overview

### Course Description

This course is designed to improve the quality of Spanish to English and English to Spanish translation. Emphasis is placed on the practice of Spanish to English and English to Spanish translation in a variety of prose styles. Upon completion, students should be able to demonstrate the usage and understanding of the processes involved in translating.

Course ID  
S11799

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 3             | 3              |

### Billing Hours

Billing  
Hours  
3

# SPI221 - Consecutive Interp I

## Overview

### Course Description

This course introduces skills of consecutive interpretation used by professional interpreters. Topics include memory development, note taking, sight translation and non-verbal communication. Upon completion, students should be able to apply consecutive interpretation techniques in a variety of role-playing situations and settings.

**Course ID**  
S11731

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 3         | 3     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

# SPI241 - Legal Interpreting I

## Overview

### Course Description

This course is designed for students planning to specialize in legal interpreting in areas such as the courtroom, attorney offices and law enforcement. Emphasis is placed on the development of legal terminology vocabulary and application of legal standards. Upon completion, students should be able to consecutively interpret and provide on-sight translation renderings of basic messages in a variety of legal settings.

**Course ID**  
S24812

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

# SPI243 - Medical Interpreting I

## Overview

### Course Description

This course is designed for students planning to specialize in medical interpreting in settings such as hospitals, physicians' offices and clinics. Emphasis is placed on the development of medical terminology vocabulary through active role-play. Upon completion, students should be able to apply medical interpretation techniques in a variety of medical situations.

**Course ID**  
S24813

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name           | Classroom   | Code |
|----------------|-------------|------|
| Hours          | CLASS       |      |
| <b>Contact</b> |             |      |
| <b>Hours</b>   | <b>Load</b> |      |
| 2              | 2           |      |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name           | Lab/Shop    | Code |
|----------------|-------------|------|
| Hours          | LAB         |      |
| <b>Contact</b> |             |      |
| <b>Hours</b>   | <b>Load</b> |      |
| 3              | 3           |      |

# SPI245 - Community Interpreting I

## Overview

### Course Description

This course is designed to expose students to interpreting in areas such as social services, business and industry. Emphasis is placed on the development of social services, business and industry vocabulary through role-play. Upon completion, students should be able to consecutively interpret basic messages in a variety of social services, business and industry situations.

**Course ID**  
S12644

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name           | Classroom   | Code |
|----------------|-------------|------|
| Hours          | CLASS       |      |
| <b>Contact</b> |             |      |
| <b>Hours</b>   | <b>Load</b> |      |
| 2              | 2           |      |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name           | Lab/Shop    | Code |
|----------------|-------------|------|
| Hours          | LAB         |      |
| <b>Contact</b> |             |      |
| <b>Hours</b>   | <b>Load</b> |      |
| 3              | 3           |      |



# SRV110 - Surveying I

## Overview

### Course 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.

MAT-171(S25432); # Take DMA-060(S24985) DMA-070(S24987) DMA-080(S24988); # Take DMA-065(S24986); # Take MAT-003; From rule RMINP2M; # Take BSP-4003(S25168); From rule BSPMINP2;

### Course ID

S25450

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 2       | 2         |       |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 6       | 6        |      |

### Simple Requisites

|                                                                          |
|--------------------------------------------------------------------------|
| State concurrent or previous courses                                     |
| Type                                                                     |
| Corequisite                                                              |
| Take 1 Set: Set 1: MAT-121 Set 2: MAT-171 Set 3: MAT-003 Set 4: BSP-4003 |
| Take 1 group; # Take MAT-121(S25429); # Take                             |

# SRV111 - Surveying II

## Overview

### Course 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.

### Course ID

S12282

### Credit Hours

Credit Hours  
4

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact |           | Load  |
| 2       |           | 2     |

### Billing Hours

Billing Hours  
4

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   |          | LAB  |
| Contact |          | Load |
| 6       |          | 6    |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take SRV-110       |

# SRV210 - Surveying III

## Overview

### Course Description

This course introduces boundary surveying, land partitioning, and calculations of areas. Topics include advanced traverses and adjustments, preparation of survey documents, and other related topics. Upon completion, students should be able to research, survey, and map a boundary.

### Course ID

S13064

### Credit Hours

Credit Hours  
4

|         |           |       |
|---------|-----------|-------|
| Name    | Classroom | Code  |
| Hours   |           | CLASS |
| Contact |           | Load  |
| 2       |           | 2     |

### Billing Hours

Billing Hours  
4

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   |          | LAB  |
| Contact |          | Load |
| 6       |          | 6    |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type Prerequisite     |
| Take SRV-110          |
| Take SRV-110(S12339); |

# SRV220 - Surveying Law

## Overview

### Course Description

This course introduces the law as related to the practice of surveying. Topics include surveyors' responsibilities, deed descriptions, title searches, eminent domain, easements, weight of evidence, riparian rights, and other related topics. Upon completion, students should be able to identify and apply the basic legal aspects associated with the practice of land surveying.

### Course ID

S10414

### Credit Hours

Credit Hours  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 2               | Load | 2     |

### Billing Hours

Billing Hours  
3

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 2              | Load | 2   |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type Prerequisite     |
| Take SRV-110          |
| Take SRV-110(S12339); |

# SRV240 - Topo/Site Surveying

## Overview

### Course Description

This course covers topographic, site, and construction surveying. Topics include topographic mapping, earthwork, site planning, construction staking, and other related topics. Upon completion, students should be able to prepare topographic maps and site plans and locate and stake out construction projects.

### Course ID

S11212

### Credit Hours

Credit Hours  
4

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
| Contact Hours | 2               | Load | 2     |

### Billing Hours

Billing Hours  
4

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
| Contact Hours | 6              | Load | 6   |

### Simple Requisites

|                       |
|-----------------------|
| State prerequisite    |
| Type Prerequisite     |
| Take SRV-110          |
| Take SRV-110(S12339); |

# SRV250 - Advanced Surveying

## Overview

### Course Description

This course covers advanced topics in surveying. Topics include photogrammetry, astronomical observations, coordinate systems, error theory, GPS, GIS, Public Land System, and other related topics. Upon completion, students should be able to apply advanced techniques to the solution of complex surveying problems.

**Course ID**  
S12861

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 6       |          | 6    |

### Simple Requisites

|                    |              |
|--------------------|--------------|
| State prerequisite |              |
| Type               | Prerequisite |
| Take SRV-111       |              |
| Take SRV-111;      |              |

# SRV260 - Field & Office Practices

## Overview

### Course Description

This course covers surveying project management, estimating, and responsibilities of surveying personnel. Topics include record-keeping, starting and operating a surveying business, contracts, regulations, taxes, personnel management, and professional ethics. Upon completion, students should be able to understand the requirements of operating a professional land surveying business.

**Course ID**  
S10307

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

# SST110 - Introduction to Sustainability

## Overview

### Course 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.

**Course ID**  
S22468

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# SST120 - Energy Use Analysis Overview

### Course 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.

**Course ID**  
S22469

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# SST130 - Modeling Renewable Energy

## Overview

### Course Description

This course introduces software and other technologies used for modeling renewable energy systems. Topics include renewable energy modeling software applications, data analysis, renewable energy sources, and cost of renewable energy systems. Upon completion, students should be able to use appropriate technology to model the effectiveness of renewable energy systems.

**Course ID**  
S22470

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
| Contact Hours  | Load     |
| 2              | 2        |

# SST140 - Green Building and Design Concepts

## Overview

### Course 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.

**Course ID**  
S23302

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 3               | 3          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

Take SST-110;

# SST210 - Issues in Sustainability

## Overview

### Course Description

This course introduces the long-term impacts and difficulties of applying sustainability concepts in an organization, business, or society. Topics include the application of sustainable technologies and the analysis of affordability, efficiencies, recycling, and small and large-scale design. Upon completion, students should be able to recognize the possible limitations of sustainable technologies and be prepared to reconcile such conflicts.

### Course ID

S22472

### Credit Hours

Credit  
Hours  
3  
Min:

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       | 3         | 3    |

### Billing Hours

Billing  
Hours  
3  
Min:

### Simple Requisites

| State prerequisite |
|--------------------|
| Type               |
| Prerequisite       |
| Take SST-110       |

# SST250 - Sustainability Capstone Project

## Overview

### Course Description

This course introduces an integrated team approach to a sustainability topic of interest to students, faculty, or professional community. Topics include problem identification, proposal preparation, conceptual design, and an effective project work schedule. Upon completion, students should be able to integrate the many facets of a topic based on environmental sustainability into a completed project.

**Course ID**  
S22473

### Credit Hours

**Credit Hours**  
3

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 1               | 1     |

### Billing Hours

**Billing Hours**  
3

| Name           |      |
|----------------|------|
| Lab/Shop Hours | Code |
|                | LAB  |
| Contact        |      |
| Hours          | Load |
| 6              | 6    |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take SST-110  
Take SST-110;



# SUR110 - Introduction to Surgical Technology

## Overview

### Course Description

This course provides a comprehensive study of peri-operative care, patient care concepts, and professional practice concepts within the profession of surgical technology. Topics include: introductory concepts, organizational structure and relationships, legal, ethical and moral issues, medical terminology, pharmacology, anesthesia, wound healing management concepts, and the technological sciences. Upon completion, students should be able to apply theoretical knowledge of the course topics to the practice of surgical technology.

### Course ID

S23183

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

### Simple Requisites

|                     |
|---------------------|
| Local Corequisite   |
| Type<br>Corequisite |

### BIO-163 MED-121

Take BIO-163 MED-121;

### State concurrent or previous courses

#### Type

#### Corequisite

### Take SUR-111

Take SUR-111(S14251);

Take SUR-110(S16542);

# SUR111 - Periop Patient Care

## Overview

### Course Description

This course provides the surgical technology student the theoretical knowledge required to function in the pre-operative, intra-operative, and post-operative role. Topics include asepsis, disinfection and sterilization, physical environment, instrumentation, equipment, peri-operative patient care, and peri-operative case management. Upon completion, students should be able to apply the principles and practice of the peri-operative team member to the operative environment.

### Course ID

S23184

### Credit Hours

Credit  
Hours  
7  
Min:

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 5               | 5     |

### Billing Hours

Billing  
Hours  
7  
Min:

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 6              | 6    |

### Simple Requisites

State concurrent or previous courses

Type  
Corequisite

Take SUR-110

# SUR122 - Surgical Procedures I

## Overview

### Course Description

This course provides an introduction to selected basic and intermediate surgical specialties that students are exposed to the first clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment.

**Course ID**  
S24471

### Credit Hours

**Credit Hour**  
**Hours**  
**Min:**  
**6**

| Name            | Code  |
|-----------------|-------|
| Classroom Hours | CLASS |
| Contact Hours   | Load  |
| 5               | 5     |

### Billing Hours

**Billing Hour**  
**Hours**  
**Min:**  
**6**

| Name           | Code |
|----------------|------|
| Lab/Shop Hours | LAB  |
| Contact Hours  | Load |
| 3              | 3    |

### Simple Requisites

|                               |
|-------------------------------|
| <b>State prerequisite</b>     |
| <b>Type</b>                   |
| <b>Prerequisite</b>           |
| Take All: SUR-110 and SUR-111 |

Take SUR-110(S21499) SUR-111(S14251);

### State concurrent or previous courses

**Type**  
**Corequisite**

Take SUR-123  
Take SUR-123;

# SUR123 - Sur Clinical Practice I

## Overview

### Course Description

This course provides clinical experience with a variety of perioperative assignments to build upon skills learned in SUR 111. Emphasis is placed on the scrub and circulating roles of the surgical technologist including aseptic technique and basic case preparation for selected surgical procedures. Upon completion, students should be able to prepare, assist with, and dismantle basic surgical cases in both the scrub and circulating roles.

**Course ID**  
S12656

### Credit Hours

**Credit Hours**  
7

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  | Load       |
| 21             | 21         |

### Billing Hours

**Billing Hours**  
7

### Simple Requisites

**State prerequisite**  
**Type Prerequisite**  

**Take All: SUR-110 and SUR-111**  
Take SUR-110(S23183) SUR-111(S23184);

State concurrent or previous courses

**Type**  
**Corequisite**

**Take SUR-122**  
Take SUR-122(S24471);

# SUR134 - Surgical Procedures II

## Overview

### Course Description

This course provides a comprehensive study of intermediate and advanced surgical specialties that students are exposed to in the second clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment.

### Course ID

S24472

### Credit Hours

Credit  
Hour  
s  
Min:  
5

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 5       |           | 5     |

### Billing Hours

Billing  
Hour  
s  
Min:  
5

### Simple Requisites

|                     |
|---------------------|
| Local Prerequisites |
| Type Prerequisite   |

Take SUR-123AB SUR-123BB

Take SUR-123AB SUR-123BB;

### Local Corequisites

Type  
Corequisite

SUR-135 BIO-175 MAT-110 OR MAT-143

Take SUR-135(S22703) BIO-175(S20491)  
MAT-110(S24992) or MAT-143(S24995);

### State prerequisite

Type  
Prerequisite

Take SUR-123

Take SUR-123;

# SUR135 - SUR Clinical Practice II

## Overview

### Course Description

This course provides clinical experience with a variety of perioperative assignments to build skills required for complex perioperative patient care. Emphasis is placed on greater technical skills, critical thinking, speed, efficiency, and autonomy in the operative setting. Upon completion, students should be able to function in the role of an entry-level surgical technologist.

**Course ID**  
S22703

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**4**

| Name           | Code  |
|----------------|-------|
| Clinical Hours | CLINC |
| Contact Hours  | Load  |
| 12             | 12    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**4**

### Simple Requisites

**Local Prerequisite**  
**Type**  
**Prerequisite**

**SUR-123AB SUR-123BB**  
Take SUR-123AB SUR-123BB;

#### State prerequisite

**Type**  
**Prerequisite**

**Take SUR-123**  
Take SUR-123;

#### State concurrent or previous courses

**Type**  
**Corequisite**

**Take SUR-134**  
Take SUR-134(S24472);

# SUR137 - Professional Success Preparation

## Overview

### Course Description

This course provides employability skills and an overview of theoretical knowledge in preparation for certification. Topics include test-taking strategies, resume preparation, interviewing strategies, communication skills, and teamwork concepts. Upon completion, students should be able to prepare a resume, demonstrate appropriate interview techniques, and identify strengths and weaknesses in preparation for certification.

**Course ID**  
S24549

### Credit Hours

**Credit Hours**  
1

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

### Billing Hours

**Billing Hours**  
1

### Simple Requisites

|                                         |
|-----------------------------------------|
| Local Prerequisite                      |
| Type                                    |
| Prerequisite                            |
| Take SUR-123AB, SUR-123BB, SUR-134, and |

|                                                           |
|-----------------------------------------------------------|
| SUR-135                                                   |
| Take SUR-123AB SUR-123BB SUR-134(S24472) SUR-135(S22703); |

### Local Concurrent Or Previous Courses

Type  
Corequisite

|                                                                               |
|-------------------------------------------------------------------------------|
| Take SUR-211 SUR-210 ENG-114 COM-120 PSY-150                                  |
| Take SUR-211(S22705) SUR-210(S22704) ENG-114(S13706) COM-120(S21722) PSY-150; |

# SUR210 - Advanced Sur Clinical Practice

## Overview

### Course Description

This course is designed to provide individualized experience in advanced practice, education, circulating, and managerial skills. Emphasis is placed on developing and demonstrating proficiency in skills necessary for advanced practice. Upon completion, students should be able to assume leadership roles in a chosen specialty area.

**Course ID**  
S22704

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
2

| Name           |            |
|----------------|------------|
| Clinical Hours | Code CLINC |
| Contact Hours  | Load       |
| 6              | 6          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
2

### Simple Requisites

| Local Corequisite     |             |
|-----------------------|-------------|
| Type                  | Corequisite |
| Take SUR-137          |             |
| Take SUR-137(S24549); |             |

# SUR211 - Advanced Theoretical Concepts

## Overview

### Course Description

This course covers theoretical knowledge required for extension of the surgical technologist role. Emphasis is placed on advanced practice in complex surgical specialties, educational methodologies, and managerial skills. Upon completion, students should be able to assume leadership roles in a chosen specialty area.

**Course ID**  
S22705

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
| Contact Hours   | Load       |
| 2               | 2          |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
2

### Simple Requisites

| Local Corequisite     |             |
|-----------------------|-------------|
| Type                  | Corequisite |
| SUR-137               |             |
| Take SUR-137(S24549); |             |



# SWK110 - Intro to Social Work

## Overview

### Course Description

This course examines the historical development, values, orientation, and professional standards of social work and focuses on the terminology and broader systems of social welfare. Emphasis is placed on the various fields of practice including those agencies whose primary function is financial assistance, corrections, mental and behavioral health, and protective services. Upon completion, students should be able to demonstrate an understanding of the knowledge, values, and skills of the social work professional.

**Course ID**  
S26382

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 3         | 3    |

### Billing Hours

**Billing Hours**  
3

# SWK113 - Cultural Competency & Diversity

## Overview

### Course Description

This course examines and promotes understanding, sensitivity, awareness, and knowledge of various cultures and diversity. Emphasis is placed on professional responsibilities, duties, and skills critical to multicultural social services practice. Upon completion, students should be able to integrate and expand knowledge, skills, and cultural awareness relevant to diverse populations.

**Course ID**  
S26383

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           | Load |
| Hours   | 3         | 3    |

### Billing Hours

**Billing Hours**  
3

# TDP110 - Introduction to Three Dimensional Printing

## Overview

### Course Description

This course covers the historical, social and ethical issues, as well as the basic techniques surrounding 3D Printing. Topics include current and historical events, social impact of the technology and basic model creation and manipulation techniques. Upon completion, students should be able to demonstrate an understanding of the major advantages and disadvantages of 3D Printing technology as well as demonstrate an ability to create and print a simple project.

### Course ID

S24064

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Simple Requisites

| Local Prerequisite   |
|----------------------|
| Type<br>Prerequisite |

Take DFT-154

Take DFT-154(S20664);

# TDP140 - Precision Three Dimensional Printing

## Overview

### Course Description

This course provides an introduction to precision printing using the basic techniques surrounding 3D Printing. Emphasis is placed on cost-effective production methods and dimensional quality control. Upon completion, students should be able to demonstrate an understanding of three-dimensional precision printing as well as demonstrate an ability to create and print an advanced project.

**Course ID**  
S24066

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type Prerequisite  |
| Take TDP-110       |

Take TDP-110;

# TNE245 - Network Perimeter Security

## Overview

### Course Description

This course introduces a variety of ways to implement security into network designs and upgrades. Topics include securing the network through the use of access lists, routers, firewalls, Ipchains, and stateful packet filtering. Upon completion, students should be able to demonstrate a variety of techniques to harden the network from outside threats.

**Course ID**  
S21617

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact | Hours    | Load |
| 3       |          | 3    |

# TNE255 - Network Servers

## Overview

### Course Description

This course covers the activities and methods required to assure productive and reliable operation of network servers. Topics include planning, installing, configuring, and maintaining servers, including knowledge of server-level hardware implementations, operating systems, data storage subsystems, data recovery, and I/O subsystems. Upon completion, students should be able to configure and maintain a network server.

**Course ID**  
S21619

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 2       |           | 2     |

### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

### Simple Requisites

| Local Prerequisite |
|--------------------|
| Type Prerequisite  |
| Take CET-130;      |

# TRF110 - Introduction Turfgrass Cultivation & Id And Identification

## Overview

### Course Description

This course covers the principles of reproduction, growth development, species characteristics, establishment and maintenance of golf courses and sports fields, and lawns. Topics include principles of reproduction, growth development, species characteristics, establishment and maintenance of golf courses and sports fields, and lawn applications. Upon completion, students should be able to identify turfgrass species and develop an establishment and maintenance plan for high quality turf areas in accordance with sustainable practices.

**Course ID**  
S23406

### Credit Hours

**Credit Hours**  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
|         |           |       |
| Contact | Hours     | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
|         |          |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

# TRN110 - Introduction to Transport Technology

## Overview

### Course Description

This course covers workplace safety, hazardous materials, environmental regulations, hand tools, service information, basic concepts, vehicle systems, and common transportation industry terminology. Topics include familiarization with major vehicle systems, proper use of various hand and power tools, material safety data sheets, and personal protective equipment. Upon completion, students should be able to demonstrate appropriate safety procedures, identify and use basic shop tools, and describe government regulations regarding transportation repair facilities.

**Course ID**  
S23455

### Credit Hours

**Credit Hours**  
2

### Billing Hours

**Billing Hours**  
2

|                 |            |
|-----------------|------------|
| Name            |            |
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 1               | Load 1     |

|                |          |
|----------------|----------|
| Name           |          |
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 2              | Load 2   |

# TRN120 - Basic Transportation Electricity

## Overview

### Course Description

This course covers basic electrical theory, wiring diagrams, test equipment, and diagnosis, repair and replacement of batteries, starters, and alternators. Topics include Ohm's Law, circuit construction, wiring diagrams, circuit testing, and basic troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair basic wiring, battery, starting, charging, and electrical concerns.

**Course ID**  
S23456

### Credit Hours

**Credit Hours**  
5

### Billing Hours

**Billing Hours**  
5

|                 |            |
|-----------------|------------|
| Name            |            |
| Classroom Hours | Code CLASS |
| Contact Hours   |            |
| 4               | Load 4     |

|                |          |
|----------------|----------|
| Name           |          |
| Lab/Shop Hours | Code LAB |
| Contact Hours  |          |
| 3              | Load 3   |

# TRN130 - Introduction to Sustainable Transportation

## Overview

### Course Description

This course provides an overview of alternative fuels and alternative fuel vehicles. Topics include composition and use of alternative fuels including compressed natural gas, biodiesel, ethanol, hydrogen, and synthetic fuels, hybrid/electric, and vehicles using alternative fuels. Upon completion, students should be able to identify alternative fuel vehicles, explain how each alternative fuel delivery system operates, and perform minor repairs.

**Course ID**  
S23458

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# TRN140 - Transportation Climate Control

## Overview

### Course Description

This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis and repair of climate control systems. Topics include diagnosis and repair of climate control components and systems, recovery/recycling of refrigerants, and safety and environmental regulations. Upon completion, students should be able to diagnose and repair vehicle climate control systems.

**Course ID**  
S23460

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hours**  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

## Simple Requisites

| Recommended concurrent or previous courses |             |
|--------------------------------------------|-------------|
| Type                                       | Corequisite |

Take TRN-140A

Take TRN-140A(S23461);

TRN140A - Transportation  
Climate Control Lab

Overview

Course Description

This course provides experiences for enhancing student skills in the diagnosis and repair of transportation climate control systems. Emphasis is placed on reclaiming, recovery, recharging, leak detection, climate control components, diagnosis, air conditioning equipment, tools and safety. Upon completion, students should be able to describe the operation, diagnose, and safely service climate control systems using appropriate tools, equipment, and service information.

Course ID

S23461

Credit Hours

Credit  
Hours  
2  
Min:  
2

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 1         | 1     |

Billing Hours

Billing  
Hours  
2  
Min:  
2

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 2        | 2    |

Simple Requisites

State recommended concurrent or previous courses

Type  
Corequisite

Take TRN-140

Take TRN-140(S23460);

TRN145 - Advanced Transportation Electronics

Overview

Course Description

This course covers advanced transportation electronic systems including programmable logic controllers, on-board data networks, telematics, high voltage systems, navigation, collision avoidance systems and electronic accessories. Topics include interpretation of wiring schematics, reprogramming PLC's, diagnosing and testing data networks and other electronic concerns. Upon completion, students should be able to reprogram PLC's, diagnose and test data networks and other electronic concerns, and work safely with high voltage systems.

Course ID  
S23462

Credit Hours

Credit  
Hours  
3

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 2       | 2         |      |

Billing Hours

Billing  
Hours  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 3       | 3        |      |

Simple Requisites

State prerequisite



Type

Prerequisite

Take TRN-120

Take TRN-120(S23456);

# TRN180 - Basic Welding for Transportation

## Overview

### Course Description

This course covers the terms and procedures for welding various metals used in the transportation industry with an emphasis on personal safety and environmental health. Topics include safety and precautionary measures, setup/operation of MIG equipment, metal identification methods, types of welds/joints, techniques, inspection methods, cutting processes and other related issues. Upon completion, students should be able to demonstrate a basic knowledge of welding operations and safety procedures according to industry standard

Course ID  
S23464

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name          | Classroom Code |
|---------------|----------------|
| Hours         | CLASS          |
| Contact Hours | Load           |
| 1             | 1              |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

| Name          | Lab/Shop Code |
|---------------|---------------|
| Hours         | LAB           |
| Contact Hours | Load          |
| 4             | 4             |

# TRP100 - Truck Driver Training

## Overview

### Course Description

This course provides training in inspecting and driving tractor trailers and assuming driver responsibilities on the road and at pickup and delivery points. Emphasis is placed on defensive driving, federal motor carrier safety regulations, trip planning, cargo handling, vehicle systems, hours of service, and accident prevention. Upon completion, students should be able to demonstrate the skills required for the commercial driver's license and employment.

**Course ID**  
S14087

### Credit Hours

**Credit Hours**  
12

| Name           | Classroom | Code  |
|----------------|-----------|-------|
| Hours          |           | CLASS |
| <b>Contact</b> |           |       |
| Hours          | Load      |       |
| 6              | 6         |       |

### Billing Hours

**Billing Hours**  
12

| Name           | Lab/Shop | Code |
|----------------|----------|------|
| Hours          |          | LAB  |
| <b>Contact</b> |          |      |
| Hours          | Load     |      |
| 18             | 18       |      |

# UAS110 - Introduction to Unmanned Aircraft Systems Operations

## Overview

### Course Description

This course provides an introduction to the history, various technologies, and capabilities of unmanned aircraft systems (UAS). Topics include UAS history, operational design and capabilities, popular applications, and the science of flight. Upon completion, students should be able to identify and explain common aspects of unmanned aircraft systems including their historical development, commonly utilized technologies, applications, and unit flight capabilities.

**Course ID**  
S24340

### Credit Hours

**Credit Hours**  
3

| Name           | Classroom | Code  |
|----------------|-----------|-------|
| Hours          |           | CLASS |
| <b>Contact</b> |           |       |
| Hours          | Load      |       |
| 3              | 3         |       |

### Billing Hours

**Billing Hours**  
3

# UAS111 - Unmanned Aircraft Systems

## Overview

### Course Description

This course provides students with the various products and technologies commonly associated with unmanned aircraft systems utilized by hobbyists, government, industry, and the military. Topics include data acquisition, operations and the various technologies associated with unmanned flight. Upon completion, students should be able to demonstrate an understanding of flight control operations including programming telemetry and data acquisition.

**Course ID**  
S24341

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 3             | 3               |       |

### Billing Hours

**Billing Hours**  
3

# UAS115 - Certification for Small Unmanned Aircraft Systems

## Overview

### Course Description

This course prepares learners for small Unmanned Aircraft Systems (UAS) flight certification to promote compliance with the requirements of Title 14 of the Code of Federal Regulations (14 CFR). Topics include FAA Title 14 CFR Part 107 study guide and NCDOT UAS flight standards to provide guidance in the areas of remote pilot certification, aircraft registration and marking, aircraft airworthiness, basic piloting skills, and the operation of small UAS. Upon completion, students should be able to meet requirements for small UAS certification through the NCDOT and perform basic small UAS piloting in accordance with FAA Title 14 CFR Part 107 regulations.

**Course ID**  
S25091

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
2

# VET110 - Animal Breeds and Husbandry

## Overview

### Course Description

This course provides a study of the individual breed characteristics and management techniques of the canine, feline, equine, bovine, porcine, ovine, caprine, and laboratory animals. Topics include physiological data, animal health management, and basic care and handling of animals. Upon completion, students should be able to identify breeds of domestic and laboratory animals, list physiological data, and outline basic care, handling, and management techniques.

**Course ID**  
S12169

### Credit Hours

**Credit Hours**  
3

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

**Billing Hours**  
3

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 2       |          | 2    |

# VET120 - Veterinary Anatomy & Physiology

## Overview

### Course Description

This course covers the structure and function of the animal body with emphasis on the similarities and differences among domestic animals. Emphasis is placed on the structure and function of the major physiological systems of domestic, laboratory, and zoo animals. Upon completion, students should be able to identify relevant anatomical structure and describe basic physiological processes for the major body systems.

**Course ID**  
S14046

### Credit Hours

**Credit Hours**  
4

|         |           |      |
|---------|-----------|------|
| Name    | Classroom | Code |
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 3       |           | 3    |

### Billing Hours

**Billing Hours**  
4

|         |          |      |
|---------|----------|------|
| Name    | Lab/Shop | Code |
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 3       |          | 3    |

# VET121 - Veterinary Medical Terminology

## Overview

### Course Description

This course covers the basic medical terminology required for veterinary technicians. Topics include the pronunciation, spelling and definition of word parts and vocabulary terms unique to the anatomy, clinical pathology, and treatment of animals. Upon completion, students should be able to demonstrate knowledge and understanding of basic medical terms as they relate to veterinary medicine.

**Course ID**  
S20429

### Credit Hours

**Credit Hours**  
3

|                        |                   |
|------------------------|-------------------|
| <b>Name</b>            |                   |
| <b>Classroom Hours</b> | <b>Code CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>       |
| 3                      | 3                 |

### Billing Hours

**Billing Hours**  
3

# VET122 - Veterinary Zoology

## Overview

### Course Description

This course introduces basic concepts and principles of biology including cell structure, metabolism, genetics, evolution, and ecology. Topics include anatomy and physiology, phylogeny, and taxonomy of the animal kingdom. Upon completion, students should be able to explain basic life processes and identify evolutionary relationships among members of the animal kingdom.

**Course ID**  
S14058

### Credit Hours

**Credit Hours**  
3

|                        |                   |
|------------------------|-------------------|
| <b>Name</b>            |                   |
| <b>Classroom Hours</b> | <b>Code CLASS</b> |
| <b>Contact Hours</b>   | <b>Load</b>       |
| 3                      | 3                 |

### Billing Hours

**Billing Hours**  
3

|                       |                 |
|-----------------------|-----------------|
| <b>Name</b>           |                 |
| <b>Lab/Shop Hours</b> | <b>Code LAB</b> |
| <b>Contact Hours</b>  | <b>Load</b>     |
| 3                     | 3               |

# VET123 - Veterinary Parasitology

## Overview

### Course Description

This course covers the common internal and external parasites of companion animals, livestock, selected zoo animals, and wild animals. Emphasis is placed on laboratory diagnosis of the most common forms of the parasite through fecal, urine, skin, and blood exams. Upon completion, students should be able to identify common parasites and discuss life-cycles, treatment and prevention strategies, and public health aspects of veterinary parasitology.

**Course ID**  
S14060

### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

# VET125 - Veterinary Diseases I

## Overview

### Course Description

This course introduces basic immunology, fundamentals of disease processes including inflammation, and common infectious diseases of animals and their prevention through immunization. Topics include fundamental disease processes, principles of medical therapy, immunologic processes, infections and zoonotic diseases of domestic animals, and prevention of disease. Upon completion, students should be able to describe basic disease and immunological processes, recognize infections and zoonotic diseases, and discuss prevention strategies.

**Course ID**  
S14075

### Credit Hours

**Credit Hours**  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hours**  
2

# VET126 - Veterinary Diseases II

Take VET-125

Take VET-125;

## Overview

### Course Description

This course is the study of basic disease processes and fundamentals of pathology, and other selected topics of veterenary medicine. Topics include histopathology, pathologic changes associated with common diseases of animals, necropsy procedures, and specimen handling. Upon completion, students should be able to describe basic pathologic changes associated with disease, recognize histopathologic changes, and properly perform collection and submission of necropsy specimens.

### Course ID

S14050

### Credit Hours

Credit  
Hours  
2  
Min:  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 1       |           | 1     |

### Billing Hours

Billing  
Hours  
2  
Min:  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

# VET131 - Veterinary Lab Techniques I

## Overview

### Course Description

This course includes the fundamental study of hematology, hemostasis, and urinalysis. Emphasis is placed on basic hematology and urinalysis techniques, manual skill development, instrumentation, quality control, and applications to veterinary science. Upon completion, students should be able to perform manual and automated CBCs, hemostatic assays, and complete urinalyses and maintain laboratory equipment and quality control.

### Course ID

S13057

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 2       | 2         |       |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 3       | 3        |      |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

#### Take VET-123

Take VET-123;

#### State concurrent or previous courses

##### Type

##### Corequisite

#### Take VET-133

Take VET-133(S13076);



# VET133 - Veterinary Clinical Practice I

## Overview

### Course Description

This course introduces basic practices and techniques of the veterinary clinic and biomedical research fields for dogs, cats, and laboratory animals. Topics include physical exam, husbandry, housing, sanitation, restraint and handling, administration of medications, anesthesia and euthanasia techniques, grooming, and dentistry. Upon completion, students should be able to properly restrain, medicate, examine, groom, and maintain each of the species studied.

**Course ID**  
S13076

### Credit Hours

**Credit Hour**  
s  
Min:  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 2             | 2               |       |

### Billing Hours

**Billing Hour**  
s  
Min:  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 3             | 3              |      |

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type                                 |
| Corequisite                          |

Take VET-120

Take VET-120(S14046);

# VET137 - Veterinary Office Practices

## Overview

### Course Description

This course is designed to teach basic administrative techniques, client communication skills, and regulations pertaining to veterinary medicine. Topics include record keeping, telephone techniques, professional liability, office procedures, state and national regulatory laws, human relations, and animal welfare. Upon completion, students should be able to demonstrate effective communication techniques, office procedures, and knowledge of regulatory laws and issues relating to animal welfare.

**Course ID**  
S12146

### Credit Hours

**Credit Hour**  
s  
Min:  
2

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

**Billing Hour**  
s  
Min:  
2

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 2             | 2              |      |

# VET211 - Veterinary Lab Techniques II

## Overview

### Course Description

This course covers advanced hematology, serology, immunology, and clinical chemistry. Topics include advanced hematologic, serologic, and immunologic test procedures: manual and automated clinical chemistry procedures: laboratory safety: and quality control. Upon completion, students should be able to collect, prepare, and analyze serum and plasma samples and outline quality control and safety procedures.

**Course ID**  
S13112

### Credit Hours

**Credit Hours**  
3

| Name            |       |
|-----------------|-------|
| Classroom Hours | Code  |
|                 | CLASS |
| Contact         |       |
| Hours           | Load  |
| 2               | 2     |

### Billing Hours

**Billing Hours**  
3

| Name           |      |
|----------------|------|
| Lab/Shop Hours | Code |
|                | LAB  |
| Contact        |      |
| Hours          | Load |
| 3              | 3    |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

Take VET-131

Take VET-131;

State concurrent or previous courses

Type

Corequisite

Take VET-213

Take VET-213(S13159);

# VET212 - Veterinary Lab Techniques III

## Overview

### Course Description

This course introduces the basic principles of microbiology, histology, and cytology. Emphasis is placed on collection of microbiological samples for culture and sensitivity and collection and preparation of samples for histological and cytological examination. Upon completion, students should be able to perform microbiological culture and sensitivity and evaluate cytology and histology specimens.

### Course ID

S13216

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact        |          |
| Hours          | Load     |
| 3              | 3        |

### Simple Requisites

|                    |
|--------------------|
| State prerequisite |
| Type               |
| Prerequisite       |

#### Take VET-211

Take VET-211;

#### State concurrent or previous courses

##### Type

##### Corequisite

#### Take VET-214

Take VET-214(S13177);

# VET213 - Veterinary Clinical Practice II

## Overview

### Course Description

This course covers basic radiography, anesthesia techniques, dentistry, sample collection and handling, surgical assistance and instrumentation, sterile techniques, and patient record keeping. Topics include basic radiography, injectable and gas anesthesia, dentistry, instrument identification and care, sterile surgical technique, specimen collection and processing, and maintenance of patient records. Upon completion, students should be able to take and process radiographs, administer and monitor anesthesia, assist in surgical procedures, collect specimens, and maintain surgical records.

### Course ID

S13159

### Credit Hours

Credit  
Hours  
Min:  
4

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 9       | 9        |      |

### Simple Requisites

State prerequisite

### Type Prerequisite

Take VET-133  
Take VET-133(S13076);

# VET214 - Veterinary Clinical Practice III

## Overview

### Course Description

This course covers advanced anesthetic techniques, special radiographic techniques, advanced dentistry, sample collection and processing, bandaging, and emergency and critical care procedures. Topics include induction and maintenance of anesthesia, radiographic contrast studies, advanced dentistry, external coaptation, intensive care procedures, and advanced sample collection techniques. Upon completion, students should be able to demonstrate proficiency in sample collection, radiology, anesthesia, critical care and emergency procedures, and dentistry.

### Course ID S13177

### Credit Hours

Credit  
Hours  
Min:  
4

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact |           |      |
| Hours   | Load      |      |
| 1       | 1         |      |

### Billing Hours

Billing  
Hours  
Min:  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact |          |      |
| Hours   | Load     |      |
| 9       | 9        |      |

### Simple Requisites

State prerequisite

### Type Prerequisite

Take VET-213  
Take VET-213(S13159);

# VET215 - Veterinary Pharmacology

## Overview

### Course Description

This course introduces drugs and other substances utilized in veterinary medicine. Emphasis is placed on drug classification and methods of action, administration, effects and side effects, storing and handling of drugs, and dosage calculations. Upon completion, students should be able to properly calculate and administer medications, recognize adverse reactions, and maintain pharmaceutical inventory and administration records.

**Course ID**  
S21571

### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 3       |           | 3     |

### Billing Hours

**Billing Hours**  
3

### Simple Requisites

**State prerequisite**

**Type**  
**Prerequisite**

Take One Set: Set 1: CHM-130 and CHM-130A

#### Set 2: CHM-151

Take 1 group; # Take CHM-130 CHM-130A; # Take CHM-151;

#### State concurrent or previous courses

**Type**  
**Corequisite**

#### Take VET-213

Take VET-213(S13159);

# VET217 - Large Animal Clinical Practice

## Overview

### Course Description

This course covers topics relevant to the medical and surgical techniques for the common domestic large animal species. Topics include physical exam, restraint, sample collection, bandaging, emergency treatment, surgical and obstetrical procedures and instruments, herd health, and lameness topics. Upon completion, students should be able to safely perform restraint, examination, and sample collection; assist surgical, obstetrical, and emergency procedures; and discuss herd health.

### Course ID

S13147

### Credit Hours

Credit  
Hours  
3  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   |           | Load  |
| 2       |           | 2     |

### Billing Hours

Billing  
Hours  
3  
Min:  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   |          | Load |
| 3       |          | 3    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take VET-120

Take VET-120(S14046);

State concurrent or previous courses

Type

Corequisite

Take VET-213

Take VET-213(S13159);

# VET237 - Animal Nutrition

## Overview

### Course Description

This course covers the principles of nutrition and their application to feeding practices of domestic, farm, and companion animals. Topics include basic nutrients and nutritional needs of individual species, proximate analysis, interpretation of food and feed labels, types of animal foods, and ration formulation. Upon completion, students should be able to select appropriate diets for animals in various stages of health and disease, analyze nutrition labels, and identify foods.

### Course ID

S11468

### Credit Hours

Credit  
Hour  
s  
Min:  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 3       | 3         |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
3

# WBL110 - World of Work

## Overview

### Course 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.

### Course ID

S23792

### Credit Hours

Credit  
Hour  
s  
Min:  
1

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 1       | 1         |       |

### Billing Hours

Billing  
Hour  
s  
Min:  
1



# WBL111 - Work-Based Learning I

## Overview

### Course 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.

Course ID  
S23794

### Credit Hours

Credit  
Hours  
1  
Min:

|         |       |            |      |
|---------|-------|------------|------|
| Name    | Work  | Experience | Code |
|         |       |            | WORK |
| Contact | Hours | Load       |      |
| 10      |       | 10         |      |

### Billing Hours

Billing  
Hours  
1  
Min:

# WBL112 - Work-Based Learning I

## Overview

### Course 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.

Course ID  
S23795

### Credit Hours

Credit  
Hours  
2  
Min:

|         |       |            |      |
|---------|-------|------------|------|
| Name    | Work  | Experience | Code |
|         |       |            | WORK |
| Contact | Hours | Load       |      |
| 20      |       | 20         |      |

### Billing Hours

Billing  
Hours  
2  
Min:

# WBL113 - Work-Based Learning I

## Overview

### Course 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.

**Course ID**  
S23797

### Credit Hours

**Credit Hours**  
3  
**Min:**  
3

### Billing Hours

**Billing Hours**  
3  
**Min:**  
3

|                 |      |
|-----------------|------|
| Name            |      |
| Work Experience | Code |
|                 | WORK |
| Contact Hours   |      |
| 30              | Load |
|                 | 30   |

# WBL115 - Work-Based Learning Seminar I

## Overview

### Course Description

This course description may be written by the individual colleges. This course is designed to be a corequisite seminar to accompany Work-Based Learning 111. Topics include: examination and analysis of the organizational structure, career path, job descriptions, job breakdowns and management style. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

**Course ID**  
S23799

### Credit Hours

**Credit Hours**  
1  
**Min:**  
1

### Billing Hours

**Billing Hours**  
1  
**Min:**  
1

|                 |       |
|-----------------|-------|
| Name            |       |
| Classroom Hours | Code  |
|                 | CLASS |
| Contact Hours   |       |
| 1               | Load  |
|                 | 1     |

### Simple Requisites

|                                      |  |
|--------------------------------------|--|
| State concurrent or previous courses |  |
| Type                                 |  |
| Corequisite                          |  |

**Take One: WBL-111, WBL-112, WBL-113 or WBL-114**

Take WBL-111 WBL-112 WBL-113 or WBL-114;

# WBL121 - Work-Based Learning II

## Overview

### Course 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.

**Course ID**  
S23800

### Credit Hours

**Credit Hours**  
1

### Billing Hours

**Billing Hours**  
1

| Name          | Work Experience | Code |
|---------------|-----------------|------|
|               |                 | WORK |
| Contact Hours | Load            |      |
| 10            | 10              |      |

# WBL125 - Work-Based Learning Seminar II

## Overview

### Course Description

This course description may be written by the individual colleges. This course is designed to be a corequisite seminar to accompany Work-Based Learning 121. Topics include: examination and analysis of the organizational structure, career path, job descriptions, job breakdowns and management style. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

**Course ID**  
S23804

### Credit Hours

**Credit Hours**  
1

### Billing Hours

**Billing Hours**  
1

| Name          | Classroom | Code  |
|---------------|-----------|-------|
|               | Hours     | CLASS |
| Contact Hours | Load      |       |
| 1             | 1         |       |

### Simple Requisites

|                                      |
|--------------------------------------|
| State concurrent or previous courses |
| Type                                 |
| Corequisite                          |

**Take One: WBL-121, WBL-122, WBL-123 or WBL-124**

Take WBL-121 WBL-122 WBL-123 or WBL-124;

# WBL131 - Work-Based Learning III

## Overview

### Course 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.

**Course ID**  
S23805

### Credit Hours

**Credit Hours**  
3  
Min: 1

### Billing Hours

**Billing Hours**  
3  
Min: 1

|               |                 |      |
|---------------|-----------------|------|
| Name          | Work Experience | Code |
|               |                 | WORK |
| Contact Hours |                 | Load |
| 10            |                 | 10   |

# WEB111 - Introduction to Web Graphics

## Overview

### Course Description

This course introduces the creation of web graphics, and addressing problems peculiar to WWW display using appropriate software. Topics include web graphics file types, optimization, RGB color, web typography, elementary special effects, transparency, animation, slicing, basic photo manipulation, and other related topics. Upon completion, students should be able to create graphics, such as animated banners, buttons, backgrounds, logos, and manipulate photographic images for Web delivery.

**Course ID**  
S22416

### Credit Hours

**Credit Hours**  
3  
Min: 3

### Billing Hours

**Billing Hours**  
3  
Min: 3

|               |           |       |
|---------------|-----------|-------|
| Name          | Classroom | Code  |
|               | Hours     | CLASS |
| Contact Hours |           | Load  |
| 2             |           | 2     |

|               |          |      |
|---------------|----------|------|
| Name          | Lab/Shop | Code |
|               | Hours    | LAB  |
| Contact Hours |          | Load |
| 2             |          | 2    |

# WEB115 - Web Markup and Scripting

## Overview

### Course 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.

**Course ID**  
S25729

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

# WEB151 - Mobile Application Development I

## Overview

### Course Description

This course introduces students to programming technologies, design, and development related to mobile applications. Topics include accessing device capabilities, compliance with industry standards, and programming for mobile applications. Upon completion, students should be able to develop basic applications for mobile devices.

**Course ID**  
S25818

### Credit Hours

**Credit Hours**  
3

### Billing Hours

**Billing Hours**  
3

| Name      |       |
|-----------|-------|
| Classroom | Code  |
| Hours     | CLASS |
| Contact   |       |
| Hours     | Load  |
| 2         | 2     |

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

# WEB210 - Web Design

## Overview

### Course 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.

**Course ID**  
S25876

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
|         |           |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
|          |      |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

# WEB213 - Internet Marketing and Analytics

## Overview

### Course Description

This course introduces students to Search Engine Optimization (SEO), Search Engine Marketing (SEM) and web analytics. Topics include Search Engine Optimization (SEO), Pay Per Click advertising (PPC), Search Engine Marketing (SEM), web analytics, eye-tracking software and email marketing. Upon completion, students should be able to set up, monitor and maintain SEO optimized websites; and develop strategies for online marketing and advertising plans.

**Course ID**  
S25877

### Credit Hours

**Credit Hour**  
**s**  
**Min:**  
**3**

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
|         |           |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

**Billing Hour**  
**s**  
**Min:**  
**3**

| Name     |      |
|----------|------|
| Lab/Shop | Code |
| Hours    | LAB  |
|          |      |
| Contact  |      |
| Hours    | Load |
| 3        | 3    |

# WLD110 - Cutting Processes

## Overview

### Course 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.

Course ID  
S23303

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 1       | 1         |       |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 3       | 3        |      |

# WLD112 - Basic Welding Processes

## Overview

### Course 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.

Course ID  
S10926

### Credit Hours

Credit  
Hours  
2

| Name    | Classroom | Code  |
|---------|-----------|-------|
| Hours   |           | CLASS |
| Contact |           |       |
| Hours   | Load      |       |
| 1       | 1         |       |

### Billing Hours

Billing  
Hours  
2

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   |          | LAB  |
| Contact |          |      |
| Hours   | Load     |      |
| 3       | 3        |      |

# WLD115 - SMAW (Stick) Plate

## Overview

### Course 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.

Course ID  
S23304

### Credit Hours

Credit  
Hours  
5

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 2       |           | 2    |

### Billing Hours

Billing  
Hours  
5

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 9       |          | 9    |

# WLD116 - SMAW (stick) Plate/ Pipe

## Overview

### Course 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.

Course ID  
S10935

### Credit Hours

Credit  
Hours  
4

| Name    | Classroom | Code |
|---------|-----------|------|
| Hours   | CLASS     |      |
| Contact | Hours     | Load |
| 1       |           | 1    |

### Billing Hours

Billing  
Hours  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
| Hours   | LAB      |      |
| Contact | Hours    | Load |
| 9       |          | 9    |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take WLD-115



Take WLD-115(S23304);

## WLD117 - Industrial SMAW

### Overview

#### Course 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.

**Course ID**  
S11726

#### Credit Hours

**Credit Hours**  
3

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 1       |           | 1     |

#### Billing Hours

**Billing Hours**  
3

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 4       |          | 4    |

## WLD121 - GMAW (MIG) FCAW/Plate

### Overview

#### Course Description

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

**Course ID**  
S23305

#### Credit Hours

**Credit Hours**  
4

| Name    | Classroom | Code  |
|---------|-----------|-------|
|         | Hours     | CLASS |
| Contact | Hours     | Load  |
| 2       |           | 2     |

#### Billing Hours

**Billing Hours**  
4

| Name    | Lab/Shop | Code |
|---------|----------|------|
|         | Hours    | LAB  |
| Contact | Hours    | Load |
| 6       |          | 6    |

### Simple Requisites

**Prerequisite**  
**Type**  
**Prerequisite**

Take WLD-110(S23303) or WLD-112;

Take WLD-110(S23303) or WLD-112;

## WLD131 - GTAW (TIG) Plate

### Overview

#### Course 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.

**Course ID**  
S23306

#### Credit Hours

**Credit Hours**  
4

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 2             | 2               |      |       |

#### Billing Hours

**Billing Hours**  
4

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
|               |                |      |     |
| Contact Hours | Load           |      |     |
| 6             | 6              |      |     |

## WLD132 - GTAW (TIG) Plate/ Pipe

### Overview

#### Course 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.

**Course ID**  
S10497

#### Credit Hours

**Credit Hours**  
3

| Name          | Classroom Hours | Code | CLASS |
|---------------|-----------------|------|-------|
|               |                 |      |       |
| Contact Hours | Load            |      |       |
| 1             | 1               |      |       |

#### Billing Hours

**Billing Hours**  
3

| Name          | Lab/Shop Hours | Code | LAB |
|---------------|----------------|------|-----|
|               |                |      |     |
| Contact Hours | Load           |      |     |
| 6             | 6              |      |     |

### Simple Requisites

State prerequisite

Type  
Prerequisite

Take WLD-131

Take WLD-131(S23306);

## WLD141 - Symbols and Specifications

### Overview

#### Course 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.

**Course ID**  
S23307

#### Credit Hours

**Credit Hours**  
3

#### Billing Hours

**Billing Hours**  
3

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact         |            |
| Hours           | Load       |
| 2               | 2          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

## WLD143 - Welding Metallurgy

### Overview

#### Course 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.

**Course ID**  
S11434

#### Credit Hours

**Credit Hours**  
2

#### Billing Hours

**Billing Hours**  
2

| Name            |            |
|-----------------|------------|
| Classroom Hours | Code CLASS |
|                 |            |
| Contact         |            |
| Hours           | Load       |
| 1               | 1          |

| Name           |          |
|----------------|----------|
| Lab/Shop Hours | Code LAB |
|                |          |
| Contact        |          |
| Hours          | Load     |
| 2              | 2        |

# WLD215 - SMAW (stick) Pipe

## Overview

### Course 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.

### Course ID

S10353

### Credit Hours

Credit  
Hours  
4

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
4

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 9             | 9              |      |

### Simple Requisites

| State prerequisite               |
|----------------------------------|
| Type Prerequisite                |
| Take One: WLD-115 or WLD-116     |
| Take WLD-115(S23304) or WLD-116; |

# WLD231 - GTAW (TIG) Pipe

## Overview

### Course 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.

### Course ID

S11260

### Credit Hours

Credit  
Hours  
3

| Name          | Classroom Hours | Code  |
|---------------|-----------------|-------|
|               |                 | CLASS |
| Contact Hours | Load            |       |
| 1             | 1               |       |

### Billing Hours

Billing  
Hours  
3

| Name          | Lab/Shop Hours | Code |
|---------------|----------------|------|
|               |                | LAB  |
| Contact Hours | Load           |      |
| 6             | 6              |      |

### Simple Requisites

| State prerequisite |
|--------------------|
| Type Prerequisite  |
| Take WLD-132       |
| Take WLD-132;      |