

Rowan-  
Cabarrus  
COMMUNITY COLLEGE



# Catalog & STUDENT HANDBOOK



2020-2021



# Rowan-Cabarrus Community College

## Directory

### General College Information

Phone: 704-216-RCCC (7222)

Hours of Access:

Mon. – Thurs.: 8:00 a.m. – 6:00 p.m.

Fri. 8:00 a.m. – 5:00 p.m.

An automated attendant is available after hours. See the college website for campus directory of specific Rowan-Cabarrus phone listings.

### College Mailing Address:

Rowan-Cabarrus Community College  
P.O. Box 1595  
Salisbury, N.C. 28145

### College Package Delivery:

(Unless specified otherwise)

Rowan-Cabarrus Community College  
1531 Trinity Church Rd.  
Concord, NC 28027

### College Internet Address:

[www.rccc.edu](http://www.rccc.edu)

### Locations:

#### North Campus

1333 Jake Alexander Boulevard, Salisbury, N.C. 28146

#### South Campus

1531 Trinity Church Road, Concord, N.C. 28027

#### Cabarrus Business and Technology Center

660 Concord Parkway Drive, Concord, N.C. 28027

#### North Carolina Research Campus

399 Biotechnology Lane, Kannapolis, N.C. 28081

#### Advanced Technology Center

525 John Snow Drive, Kannapolis, NC 28081

#### College Station

489 N. Cannon Blvd., Kannapolis, N.C. 28081

*All Campus Locations are Tobacco Free.*



# Rowan-Cabarrus Community College

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Rowan-Cabarrus Community College does not discriminate on the basis of race, sex, color, national origin, religion or disability in its employment opportunities, admission policies, programs, services or activities. Rowan-Cabarrus is an Equal Opportunity Employer.



# Academic Calendar

## Fall Semester 2020

Aug. 17	M	Fall Term Begins (16-Week and 1st 8-Week Terms Begin)
Aug. 31	M	14-Week Term Begins
Sept. 7	M	Labor Day Holiday*
Sept. 8	T	Student Break Day
Oct. 12-13	M-T	Student Break Days
Oct. 19	M	Second 8-Week Term Begins
Nov. 11	W	Veterans Day Holiday*
Nov. 25	W	Student & Faculty Break Day
Nov. 26-27	TH-F	Thanksgiving Holidays*
Dec. 16	W	Fall Term Ends

## Spring Semester 2021

Jan. 1	F	New Year's Holiday*
Jan. 8	F	Spring Term Begins (16-Week and 1st 8-Week Terms Begin)
Jan. 18	M	Martin Luther King, Jr. Holiday*
Jan. 25	M	14-Week Term Begins
Mar. 8-12	M-F	Spring Break*
Mar. 15	M	Second 8-Week Term Begins
Apr. 2	F	Spring Holiday*
May 10	M	Spring Term Ends
May 14	F	Graduation

## Summer Semester 2021

May 17	M	Summer Term Begins (8-Week and 4-Week Terms Begin)
May 31	M	Memorial Day Holiday*
June 1	T	Student Break Day
June 16-18	W-F	Student Break Days
June 21	W	Second 4-Week Term Begins
July 5	M	4th of July Holiday*
July 19	M	Summer Term Ends

### Disclaimer Statements for Calendars

\*Rowan-Cabarrus is closed on holidays listed above.

The calendar is subject to change. For the most current version, consult the online calendar at: [www.rccc.edu/academic-calendar](http://www.rccc.edu/academic-calendar)

College Course Advisement and Registration are available during standard hours of operation.

Spring Break Days will be used as make-up days for inclement weather, if necessary.



# General Information





# General Information

Rowan-Cabarrus Community College reserves the right to change its regulations, policies, fees and programs without notice.

## Equal Opportunity/Affirmative Action

Rowan-Cabarrus Community College is an equal opportunity institution. All programs, activities and facilities are available to all on a non-discriminatory basis, without regard to race, color, religion, gender, sexual orientation, age, handicap, or national origin. The College provides access, equal opportunity and reasonable accommodation in services, programs, activities, education and employment for individuals with disabilities. Reasonable accommodations will be provided to individuals with disabilities upon request, in advance of the event.

## Open Door Policy

Rowan-Cabarrus Community College has an open-door admission policy for applicants who are high school graduates, are at least 18 years of age or whose admission eligibility conforms to North Carolina law and North Carolina Community College system directives. The Board of Trustees reserves the right to amend the local admissions policy within the parameters permitted by the state of North Carolina and the State Board of Community College Code. Admission to the College is open without regard to race, creed, disability, national origin, gender, sexual orientation or age to any student who meets the age or graduation requirements.

Some degree programs have specific requirements for admission. Information for specific requirements can be found on the college website, or by contacting the Navigation Station at 704-216-7222.

## Tuition

The North Carolina Legislature and the North Carolina State Board of Community Colleges sets tuition for college degree programs. Tuition rates are subject to change without notice. College fees are established by the Rowan-Cabarrus Community College Board of Trustees and are subject to change without notice.

Tuition/Registration Fees for corporate and continuing education courses vary based on the number of contact hours of the course.

## Accreditation

Rowan-Cabarrus Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate degrees, diplomas and certificates. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Rowan-Cabarrus Community College. For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/president/accreditation](http://www.rccc.edu/president/accreditation)

# Consumer Information

In compliance with federal law, consumer information is located on the college website: [www.rccc.edu/president/consumer-information/](http://www.rccc.edu/president/consumer-information/)

## Board of Trustees

Carl M. Short, Jr., Chair	Patricia G. Fulcher
Cynthia L. Mynatt, Vice Chair	Patricia K. Horton
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R. Daryl Cox	<i>Government Association</i>
Jeanne A. Dixon	<i>President</i>

## Administration

Dr. Carol S. Spalding .....	College President
David Cannon.....	Chief Officer of Finance and Administration
Jonathan Chamberlain .....	Chief Officer, College Environment
Nekita Eubanks .....	Chief Officer of Human Resources
Ken Ingle.....	Chief Officer, Information Services/CIO
Craig Lamb .....	Vice-President of Corporate and Continuing Education
Natasha Lipscomb .....	Vice President of Student Success Services
Dr. Michael Quillen.....	Vice-President of Academic Programs
Sarah Walker .....	Chief Officer of Governance, Advancement & Community Relations
Dr. Angelo Markantonakis.....	Associate Vice-President, Academic Programs
Debra NeeSmith.....	Associate Vice-President, Academic Support
Dr. Wendy Barnhardt.....	Dean of Health and Education
Dr. Van Madray.....	Dean of Business, Engineering Technologies and Public Services
Dr. Carol Scherczinger .....	Dean of Arts and Sciences



# 2018-2023 Rowan-Cabarrus Strategic Plan

## Statement of Purpose

Rowan-Cabarrus Community College is an open door, comprehensive learning-centered institution of public higher education serving the citizens of Rowan and Cabarrus counties. The College, a member of the North Carolina Community College System, offers affordable occupational and educational programs leading to Associate in Arts Degree, Associate in Engineering Degree, Associate in Science Degree, Associate in Fine Arts Degree, Associate in General Education Degree, and Associate in Applied Science Degrees. Diplomas and certificates are awarded for other occupational, adult and continuing education programs.

The primary focus of the College is workforce development, meeting the educational needs of the individual and changing requirements of the workplace. Reflecting its commitment to student learning outcomes, the College strives to inspire its students to increase their knowledge, develop occupational and technical proficiencies, respond to lifelong learning opportunities, and expand their awareness as responsible citizens in a democratic society.

## Rowan-Cabarrus Mission

Rowan-Cabarrus improves lives and builds community through public higher education and workforce development.

## Vision Statement

Building sustainable futures through the power of learning.

## Values

We are committed to our college and our community through our values:

- Excellence and innovation in education and workforce development;
- Continuous improvement through lifelong learning and achievement;
- Trust, integrity, inclusiveness, and mutual respect;
- Exemplary service through teamwork;
- Responsiveness, resiliency, sustainability, accountability;
- Leadership, partnership and global citizenship.

## Strategic Goals

1. LEARN: How can Rowan-Cabarrus Community College increase the community's educational attainment that leads individuals, families and the region to prosperity, sustainability and success?
  - 1.1 Achieve high-quality learning for every student.
  - 1.2 Prepare students for career success and continued higher education.
  - 1.3 Employ technology and resources that support learning.
  - 1.4 Ensure timely student completion.
2. ENGAGE: How can Rowan-Cabarrus Community College best prepare students to be responsible and productive citizens?
  - 2.1 Provide holistic advising, resources and support services to optimize the student experience.
  - 2.2 Establish Rowan-Cabarrus Community College as the first choice for higher education.
  - 2.3 Increase student participation in co-curricular and extra-curricular activities to produce well-rounded leaders.
  - 2.4 Partner with students for life.
3. INNOVATE: How can Rowan-Cabarrus Community College serve the Community of the Future?
  - 3.1 Expand institutional capacity for creating transformation.
  - 3.2 Develop world-class faculty and staff.
  - 3.3 Pioneer solutions by anticipating institutional opportunities.
4. LEAD: How can Rowan-Cabarrus Community College be a catalyst for change?
  - 4.1 Convene critical and strategic conversations about the future of our communities.
  - 4.2 Be the leading advocate for community college education.
  - 4.3 Strive for continuous improvement by challenging the status quo.

## History of the College

The need for a technical education center was recognized in 1960, when Salisbury-Rowan community leaders, working through the chamber of commerce, conducted a survey of manpower requirements in the area. Results of the survey provided the basis for their request that the State Board of Education establish an industrial education center in Rowan County. The people of Rowan County gave strong support to the idea by approving a \$500,000 bond issue to purchase land and finance construction of the first building. When the center first opened its doors in 1963, it offered seven pre-employment education programs and a variety of short courses for adults.

In 1964, the school was designated Rowan Technical Institute under the provisions of the Community College-Technical Institute Act. This made it possible to expand the school's curricula.

In 1979, the General Assembly passed a bill which recognized the synonymous nature of the terms "institute" and "college." After appropriate action by the Board of Trustees and the Rowan County Commissioners, the North Carolina State Board of Education officially approved the name of Rowan Technical College.

In 1988, the trustees of the College voted to change the name of the institution to Rowan-Cabarrus Community College to more accurately reflect the comprehensive nature of its programs and the service area. The College became the first multi-campus institution in the state in 1991 with the opening of the South Campus.

The College has experienced considerable growth since 1963, and now enrolls an average of 20,000 citizens annually. Today, Rowan-Cabarrus Community College prepares individuals for careers in approximately 50 programs of study in business, health and public services, and industrial and engineering technologies. The College also offers the Associate in Arts, Associate in Engineering, Associate in Fine Arts and Associate in Science degree programs for those students who intend to transfer to a four-year college or university.

Rowan-Cabarrus serves the residents of Cabarrus and Rowan counties at five campus locations: North Campus, South Campus, College Station, the Cabarrus Business and Technology Center, and the North Carolina Research Campus.

2010 was a banner year for Rowan-Cabarrus, as it not only opened its 62,000-square-foot classroom and laboratory building at the North Carolina Research Campus, but also its first completely new facility on the North Campus in more than 30 years. The 38,000-square-foot classroom building was LEED Gold certified, a leader in its own right as the first LEED Gold building in Rowan or Cabarrus counties and the fourth in the N.C. Community College system.

In November 2010, Rowan County citizens approved a \$12 million bond referendum for capital improvement projects on the North Campus as a commitment to keep

facilities updated to provide the highest quality and relevant instruction and training.

A newly renovated building opened at the North Campus in 2016, creating an attractive new facade visible from Interstate 85 and providing space for many of the College's health care programs.

Between 2016 and 2019, the College continued its commitment to innovation and leading-edge facilities and instruction:

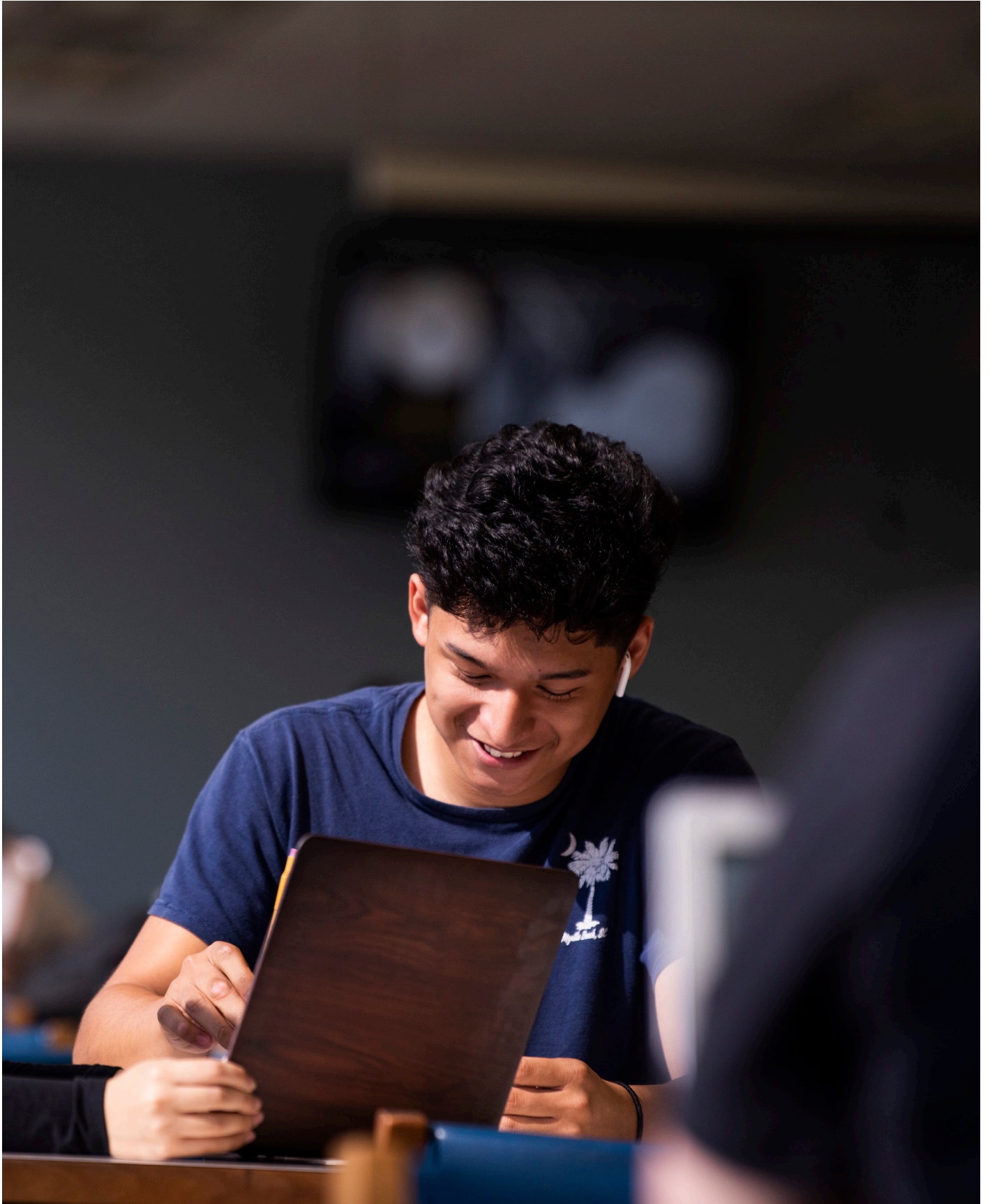
- With new occupational therapy assistant and physical therapist assistant programs, in addition to its highly regarded dental assisting and nursing programs, Rowan-Cabarrus remains a leader in regional workforce training for in-demand health care jobs.
- A new mechatronics engineering technology program offers training for advanced technology jobs requiring a combination of electrical, mechanical and computer skills to work on complex systems found in advanced manufacturing environments.
- Partnering with the City of Kannapolis, Rowan-Cabarrus opened the College Station building with increased space and cutting-edge equipment for the largest cosmetology program in the state.
- As the largest provider of public safety training in North Carolina, the College expanded its fire and emergency services facility, constructing a burn building for hands-on instruction and breaking ground on a five-story tower to provide training in dealing with specific high-risk situations.
- Thanks to a Cabarrus County bond referendum and a unique multifaceted partnership with the county, the City of Kannapolis and Castle & Cooke North Carolina, the College continued to look to the future with an eye on high-tech, advanced technology training. A state-of-the-art Advanced Technology Center was built on three acres of N.C. Research Campus land generously donated by David Murdock. Opened in the fall of 2019, the 55,000-square-foot flagship facility attracts employers to the region and allows the College to offer high-tech, advanced technology careers for many years to come.

Year after year, Rowan-Cabarrus continues to navigate forward, from being named a Top 10 Digital College four years in a row to prestigious honors in 2019 as Dr. Carol Spalding was named N.C. Community College President of the Year and the College took home the Distinguished Partnership of the Year Award for its collaboration with the City of Kannapolis and Castle & Cooke North Carolina.

With the mission of changing lives and improving the communities it serves, Rowan-Cabarrus Community College attracts more students and talented faculty each year, creating new opportunities and establishing the College as a regional leader in higher education and workforce development.



# Program/Services Overview



# Programs and Services Overview

## Business, Engineering, Health, Public Services and Technical Programs: (A.A.S. or Associate in Applied Sciences)

The North Carolina Community College System (NCCCS) offers two-year degree, diploma and certificate programs for individuals whose career goals are to immediately enter the workforce in their chosen profession or trade. The program offerings in the Associate in Applied Sciences provide education and training in current and emerging careers in our regional service area and beyond. Some of the A.A.S. programs have established articulation agreements with private and public universities that accept some courses toward an undergraduate degree.

## Transfer Programs:

Rowan-Cabarrus offers three transfer program areas: Associate in Arts (A.A.), Associate in Engineering (A.E.), Associate in Fine Arts (A.F.A.), and Associate in Science (A.S.). The transfer programs offer degree-completing students the opportunity to transfer 60 - 61 credit hours to the University of North Carolina system member institutions. (See Comprehensive Articulation Agreement section).

Transferring to private universities or to colleges and universities outside of North Carolina requires additional research and planning by students while enrolled at Rowan-Cabarrus to ensure the best possible credit transition.

## Associate in General Education:

The Associate in General Education (A.G.E.) is a degree program designed for students who want additional flexibility in designing a degree program to meet their educational and academic needs. The A.G.E. is not a transfer degree option, but senior institutions may receive some individual courses if a student is interested in transferring. Pre-health students are assigned in this major until formally admitted to a health program.

## Comprehensive Articulation Agreement:

The current Comprehensive Articulation Agreement became effective in 2014. This agreement addresses the transfer of credits between institutions in the North Carolina Community College System to constituent institutions of the University of North Carolina. Community college graduates of the A.A. and A.S. programs who have completed the general education transfer core will be considered to have fulfilled the institution wide, lower division general education requirements of the receiving institution.

## Career and Academic Advising Centers:

Career and academic advisors are available on both North and South Campuses to assist students. Advisors are dedicated to providing quality career exploration and academic planning in an environment that is welcoming, professional, and supportive. Academic advising is a cooperative effort between the student and the advisor. The Advising Center is committed to the mission of making a difference in the lives of students by collaboratively developing comprehensive strategies that empower students to realize individual success. For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/advocacyservices](http://www.rccc.edu/advocacyservices)

## Adult Studies:

An important function of the College is to provide educational programs on the pre-college level. Pre-college studies offer adults the opportunity for meaningful social and occupational growth through Adult Basic Education (ABE), High School Equivalency Program (HSE, formerly GED) and English as a Second Language (ESL) programs. For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/precollege](http://www.rccc.edu/precollege).

## Career & College Promise Program:

The Career & College Promise Program (CCP) allows qualified high school juniors and seniors to earn college credits toward a transfer degree or a technical education degree. The program has specific admission criteria and specific courses for program completion. High school students who are interested in this opportunity must consult with their high school counselor or, if in an approved homeschool, the student and principal may consult with an enrollment advisor. For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/highschool](http://www.rccc.edu/highschool).

## Corporate and Continuing Education Programs:

At Rowan-Cabarrus Community College, Corporate and Continuing Education programs support the philosophy that learning is a lifelong activity. This division offers courses for professional and job skills development and personal enrichment courses of general interest at convenient times and locations. The Corporate and Continuing Education Division supports individual, organizational, and economic development by providing career-focused, educational programs and services to citizens and employers of Rowan and Cabarrus counties. For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/corporatecontinuing](http://www.rccc.edu/corporatecontinuing).



**English as a Second Language (E.S.L.):**

English as a Second Language is offered as a College and Career Readiness program within the the Basic Skills section. For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/precollege/about-ell-program/](http://www.rccc.edu/precollege/about-ell-program/).

**Admissions & Student Success:**

Prospective students to college or continuing education courses can receive information about admissions, registration, general advising, transcripts, financial aid, career counseling, academic counseling, veterans' benefits and graduation through the Navigation Stations at North or South Campus. To speak with a Success Navigator in Admissions, schedule a campus tour, or learn more about the College through New Student Orientation, please visit the Rowan-Cabarrus website: [www.rccc.edu/admissions/](http://www.rccc.edu/admissions/) or [www.rccc.edu/navstation/](http://www.rccc.edu/navstation/).

**Financial Aid/Veterans Administration Benefits**

Rowan-Cabarrus offers many types of financial assistance including federal and state grants, federal work study and institutional scholarships. Initially, students should complete the federal financial aid application at: [www.fafsa.gov](http://www.fafsa.gov) to be considered for financial assistance.

Veteran's benefits are available for qualified veterans and/or their designated family member. For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/financialaid/](http://www.rccc.edu/financialaid/) or [www.rccc.edu/vets/](http://www.rccc.edu/vets/)

**Library:**

The Library provides our students with library, audiovisual, Internet and instructional resources and services necessary to support the educational programs of the College. They also provide resources to meet the various needs, interests, and aptitudes of the students enrolled in lifelong learning. General use computers are available in the Library with open lab hours for students. Libraries are available at North, South and NCRC, but students may access library resources from any general computer with Internet access. For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/lrc](http://www.rccc.edu/lrc).

**Navigation Station:**

In the Navigation Station, the College brings together a host of student services under one roof so that you can get back to the business of being a student!

The Navigation Station helps address student needs from A to Z. From completing financial aid forms and addressing payment options, to class registration, requesting transcripts, or completing applications for graduation, students can make an appointment with an academic advisor to get assistance. Additionally, students who experience life events and need to speak with someone, can work with designated staff to help address their needs.

The Navigation Station offers extended hours at both North and South Campuses. The Navigation Station on-campus or online helps to get students off to a successful start at Rowan-Cabarrus. [www.rccc.edu/navstation](http://www.rccc.edu/navstation)

**Small Business Center:**

The mission of the Small Business Center (SBC) is to increase the success rate and number of viable small businesses in the community by providing education, counseling, a resource library, and special programs. The SBC offers free two-hour seminars on topics such as business start-up, funding, business plans, marketing, sales, green operations, social media and online ventures. More in-depth training and skill-building includes courses in basic accounting, QuickBooks and business plan writing. For additional information, please visit the Rowan-Cabarrus website at: [www.rccc.edu/sbc](http://www.rccc.edu/sbc).

**Student Government Association/ Student Life and Leadership:**

Student life and student leadership are critical components of the student experience. Student Life at Rowan-Cabarrus continues to flourish with a high-level of student participation in clubs and activities. Student Life extends beyond the campuses. The student life calendar includes service projects, blood drives, legislative visits, leadership conferences and charter bus excursions. Online activities, including e-sports, online publications, and social media chats, are also available for engagement beyond the physical campus. The Student Government Association continues to be the official voice through which students' opinions and actions may be carried out. Chartered student organizations of academic and social interests are available for students to join. For additional information on ways to get involved, please visit the Rowan-Cabarrus website: [www.rccc.edu/studentlife/](http://www.rccc.edu/studentlife/) or [www.rccc.edu/sga](http://www.rccc.edu/sga) or email [studentlife@rccc.edu](mailto:studentlife@rccc.edu).

**Student Wellness Center:**

The mission of the Student Wellness Center is to provide support to students in the areas of personal growth, academic achievement, and acute crisis situations. The Wellness Center provides accessibility to the food/resource pantry on campus and referrals to relevant community agencies in an effort to promote the academic success of students. The Student Assistance Program is an extension of the Student Wellness Center and offers free professional counseling sessions per year as well as access to a free legal consultation and free financial advising. Information about available services, as well as self-help resources can be found on the Rowan-Cabarrus website: [www.rccc.edu/wellness](http://www.rccc.edu/wellness).

**Testing Centers:**

The Testing Centers at North and South Campus provide comprehensive testing services, including placement, allied health admissions, High School Equivalency (HSE), credit for prior learning (CLEP and DSST), academic course make-up exams, and industry specific certification testing. The Testing Centers serve as remote test sites and provide proctoring services for other educational institutions. Rowan-Cabarrus is also an authorized test site for Pearson-VUE.

For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/testing](http://www.rccc.edu/testing).

**Tutoring Centers:**

Students can access tutoring services on North and South Campuses. Rowan-Cabarrus provides tutoring in English, reading, writing, mathematics, foreign language, and most science courses including biotechnology. Additionally, Rowan-Cabarrus students have access to 24/7 online tutoring in numerous subjects from any computer with Internet access.

For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/tutoring](http://www.rccc.edu/tutoring).



# Admissions and Enrollment



## General Admission Information

The College and other institutions in the North Carolina Community College System operate under an Open Door policy. In accordance with the State Board of Community College Code, 1A SBCCC 200.1 - Mission of the Community College System, the College shall maintain an open-door admissions policy, which accepts applicants who have graduated from high school, hold a GED or adult high school diploma, or are at least 18 years of age. The College also enrolls high school students who are qualified to participate in college courses through the Career and College Promise Program or selected continuing education training courses. The Rowan-Cabarrus Board of Trustees reserves the right to establish local admission policies as authorized within the parameters established by the State Board of Community College Code.

Rowan-Cabarrus offers education and training to meet the needs of the community. There may be specific admission criteria for individual programs. Please contact your Success Navigator in Admissions to learn if there are any specific admissions criteria for your program of interest.

Individuals seeking accommodations related to enrollment, please visit our Office of Accessibility at [www.rccc.edu/accessibility/](http://www.rccc.edu/accessibility/).

### College Degree, Diploma and Certificate Program Admission

Advisors will assist in determining your present academic preparedness for the program you have chosen. The College uses placement tests, academic records, occupational experience and/or other indicators to determine the student's preparedness and potential for success. A high school diploma or recognized equivalent is usually the minimal preparation; however, a prospective student may demonstrate their academic readiness through the college placement inventory. If you have not completed high school, the College provides adult studies (HSE) programs through pre-college studies.

High school seniors should apply early in their senior year. New students are admitted prior to the start of each semester. Qualified students are accepted during each semester's registration, if space is available.

Adult prospective students who need assistance in determining a program of choice, will be provided advising and guidance on courses to become academically ready.

The Basic Law Enforcement Training program and all health programs contain additional admission requirements that must be met before the student is admitted to the program. All admission requirements are listed in the special admission section of the catalog and the online catalog updates.

### Transition Courses

Transition courses (designed to improve reading, writing, spelling and mathematics) are taught in small classes. Usually, students who take transition courses will be advised if they can take one or two of their regular program courses at the same time. Academic advisors will assist you in developing your educational plan for two or more semesters to meet your goal.

Transition classes are considered non-credit courses and are not included in the grade point average; however, tuition and fees are charged at the same rate as a credit course.

### Distance Education Formats

Rowan-Cabarrus Community College offers over 250 fully online courses, enabling students to earn a variety of online degrees, diplomas, and certificates. Our network of courses allows students to participate in learning outside of the traditional classroom. Our goal is to provide students greater flexibility in scheduling classes while providing Rowan-Cabarrus faculty with new and innovative approaches to teaching. Fully online courses are available across a variety of disciplines including accounting, education, English, math, Spanish, and many more.

Rowan-Cabarrus offers several methods of distance education, providing students a variety of scheduling choices and approaches to learning.

Internet courses are 100 percent online with no on-campus class time. Students are required to meet academic prerequisites prior to registering for an Internet course.

Hybrid and Web-Based courses combine online learning with face-to-face instruction. In addition to fully online content and activities, Hybrid and Web-Based courses also meet on-campus on specified days (specific meeting dates will be communicated by the instructor).

Internet, Hybrid, and Web-Based courses all contain an Enrollment Verification Assignment (EVA) that must be completed before any other course work. Additional information will be provided in your Blackboard class site.



## Enrolling is Easy at Rowan-Cabarrus:

- **Complete Residency Determination Service**

**Process:** Due to the implementing of Session Law 2013-360, the state of North Carolina instituted the Residency Determination Service (RDS), in coordination with other NC community colleges and universities, as the centralized service for determining residency for students. This service enables a student to use one residency determination for admissions applications to multiple NC public colleges and universities and to demonstrate residency for state aid programs consideration at all public and private NC colleges and universities. <https://ncresidency.cfnc.org/residencyInfo/home>

- **Apply for Admission:** Apply online through College Foundation of North Carolina (CFNC). It takes a minimum of one business day to process your application, depending on the date you apply. [cfnc.org](https://cfnc.org)
- **Returning Students:** Returning curriculum students are defined as having taken a curriculum level course and received a letter grade of A, B, C, D, F or W. Complete the online reactivation form on the College's website and enter the RCN number that was issued from the RDS process. It takes a minimum of one business day to process your application, depending on the date you apply.
- By electronically completing and submitting the college application, the student accepts the responsibility to be aware of and follow codes of conduct, behavior standards and all program specific rules, policies and procedures.
- **Official Transcripts:** Request your high school transcript at the time of completing the CFNC Application for Admission, you may log in to your CFNC account and choose to have your high school transcript sent directly to Rowan-Cabarrus at no cost, and our office will receive it almost immediately. You may also contact the Guidance or Registrar's office of your high school and any colleges you have attended and request an official copy of your transcript be sent to:
  - Student Services/Office of Registrar
  - Rowan-Cabarrus Community College
  - P.O. Box 1595
  - Salisbury, North Carolina 28145-1595
- An official transcript is in a sealed envelope, has an embossed seal or original signature, and is usually mailed directly to Rowan-Cabarrus from the institution or may be sent electronically from the institution or transcript service to Rowan-Cabarrus. The graduation date will be posted on all high school transcripts. Public high school graduates are encouraged to request an electronic copy from the College Foundation of North Carolina (CFNC).

- Homeschool graduates should send a final transcript, verifying your graduation, as well as a copy of your certification card from the North Carolina Department of Non-Public Instruction acknowledging your homeschool. Correspondence/online school diplomas will be accepted if they are regionally accredited or accredited by the Distance Education and Training Council (DETC). Any other correspondence/online school diplomas will be reviewed on a case-by-case basis.

## Residency:

Due to the implementing of Session Law 2013-360, the state of North Carolina instituted the Residency Determination Service (RDS), in coordination with other NC community colleges and universities, as the centralized service for determining residency for students. This service enables a student to use one residency determination for admissions applications to multiple NC public colleges and universities and to demonstrate residency for state aid programs consideration at all public and private NC colleges and universities. The residency application is available online: <https://ncresidency.cfnc.org/residencyInfo/home>

Appeals related to residency must be submitted to the NC Residency Determination Service. You can find more information related to the Residency Appeals Process online: <https://ncresidency.cfnc.org/residencyInfo/home>

## Out-of-State Student

A student who is determined to be a nonresident of North Carolina is subject to a significantly higher tuition charge than a resident. An initial residency decision is made at the point of application to the NC Residency Determination Service. A student who is determined to be a nonresident based on information provided to RDS may submit an appeal for possible reclassification through RDS. Additional information regarding the appeals process is available online: <https://ncresidency.cfnc.org/residencyInfo/home>

Tuition rates are subject to change by action of the North Carolina General Assembly.

## International Admissions

[www.rccc.edu/admissions/admission-requirements-for-international-students](http://www.rccc.edu/admissions/admission-requirements-for-international-students)

Rowan-Cabarrus Community College provides educational opportunities for individuals who may not be citizens or residents of our regional service area. Our College is authorized under Federal law to enroll non-immigrant students. Non-immigrant students will be accepted to begin classes in the fall semester only. To be considered for admission, an international applicant must provide the following information to the Office of Admissions for:

- A completed application, includes documents listed below, received no later than June 15 of the Fall admission year.
- A certified copy of his/her official high school diploma, transcript from all high schools and post-secondary institutions the student has attended, and official U.S. educational evaluation of the documents. All transcripts from schools outside the United States must be evaluated by a reputable evaluation service. A list may be obtained in Student Services and on the website at [www.rccc.edu/admissions/admission-requirements-for-international-students/](http://www.rccc.edu/admissions/admission-requirements-for-international-students/)
- Original financial documents are required along with a statement of financial support from the student's sponsor, and a statement from the sponsor's bank that there are sufficient funds, \$20,500 U.S. dollars, to support the student. If there is no sponsor, an original and official document that shows the student has on deposit sufficient funds to support his/her tenure as a student (\$20,500/year U.S. dollars).
- A minimum score of 500 on the Test of English as a Foreign Language (TOEFL) or a minimum score of 173 on the computerized version, or a minimum Internet Based Test (IBT) score of Reading 17, Listening 17, Speaking 16, and Writing 16. If any single score falls below the minimum, the IBT will not be considered. All scores must be received as official documents. No copies of scores will be accepted. TOEFL test scores must be within two years of the date of admission.
- After all required documentation has been received by June 15 deadline, and after approval by the Office of Admissions & Registrar, the applicant may be issued his/her I-20.
- After applicant has received the appropriate visa allowing him/her to enter the U.S., he/she must present evidence of medical insurance coverage prior to registration.

NOTE: Rowan-Cabarrus does not have scholarship or loan funds for international students available at this time. The College does not provide residence halls.

## State Authorization

Admission of applicants residing outside of North Carolina is dependent on the College's ability to secure authorization from the state in which the applicant is currently residing. For more information, please visit the College website [www.rccc.edu/distance/state-authorization](http://www.rccc.edu/distance/state-authorization)

# Admission of High School Students through Career and College Promise

## College Transfer and Career Technical Pathways

Currently enrolled high school junior and senior students who wish to take college courses through Rowan-Cabarrus may participate in the Career and College Promise Program. To participate in this program the high school student must complete the online Career and College Promise application and meet with their high school counselor. Students must select one of the College Transfer Pathways or may select a Career Technical Certificate Pathway.

To qualify for a College Transfer Pathway, a student must have a 2.8 or higher unweighted grade point average or demonstrate college readiness in English, mathematics and reading using an approved assessment. They must also continue to make progress towards high school graduation.

To qualify for a Career Technical Certificate Pathway, a student must have a 2.8 or higher unweighted grade point average or the recommendation from a high school principal or designee and approval from the Vice President of Student Services or the Vice President of Academic Programs.

Career and College Promise Program students are subject to the same criteria for academic probation as traditional college students.

For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/highschool](http://www.rccc.edu/highschool)

## Early College at Rowan-Cabarrus

Early College is an educational partnership between Rowan-Cabarrus and school districts in Rowan and Cabarrus counties. This partnership provides high school students an opportunity to earn both high school and college credits during four years of enrollment in an early college program. By earning enough credits, a graduating high school senior could exit high school with an associate degree and be ready for workforce employment or transfer to a four-year college or university. The student must enroll as a high school freshman to pursue this opportunity. College tuition for early college students is waived. Early College programs are administered by the local educational agency (school district), but housed on the college campus. To learn more information about early college opportunities in Rowan County, Cabarrus County or Kannapolis City Schools, please contact these school districts.



## Registration

The traditional college curriculum operates on the semester system and uses an online class scheduling tool known as Navigate. All students enrolled in programs may register using Navigate. Find registration dates on the College website: [www.rccc.edu/recordsregistration/registration-dates](http://www.rccc.edu/recordsregistration/registration-dates). Students should meet with an advisor prior to registering for classes to assure students have developed the educational plan for their program of study. Registration is completed by paying the required tuition and fees for the courses scheduled. Please refer to the section on tuition and fees.

## Schedule Changes

Students may make changes to their course schedule at any time during the scheduled registration dates. Once the semester begins, students who are registered for credit courses as of the first day of any semester can make schedule changes as follows; 1) the first two days of fall and spring semesters; and 2) the first day of summer term. Schedule changes may be made by the student using the Navigate tool or by visiting the Career and Academic Advising Center or seeing a faculty/program advisor.

# General Admission Information for Corporate and Continuing Education

[www.rccc.edu/corporatecontinuing](http://www.rccc.edu/corporatecontinuing)

Corporate and Continuing Education offers coursework in the following areas: Adult Basic Education, English as a Second Language, S.O.A.R., Human Resources Development (HRD), personal enrichment and workforce development. Below are the general requirements for admission and registration to each area in Corporate and Continuing Education. Individuals seeking accommodations should refer to the Special Students section.

## Adult Basic Education

Adult Basic Education is aimed at supporting students who are seeking education in basics skills such as reading and math or help preparing for the High School Equivalency (HSE) tests that are needed to obtain a North Carolina Equivalency Diploma. Incoming students must be at least 18 years old.

Minors (age 16 or 17) may be enrolled on a space available basis only and with prior approval by an administrator. People seeking admission to enter the Adult Basic Education program can register online at [www.rccc.edu/precollege/hse-registration-form](http://www.rccc.edu/precollege/hse-registration-form) or contact the Navigation Station (704-216-7222) to get specific enrollment information. Those under age 18 must receive and complete an enrollment packet before meeting with the Executive Director, College and Career Readiness for approval to begin coursework.

## Adult High School (AHS):

The Adult High School program is offered cooperatively with the local public school systems to offer adults an opportunity to earn an Adult High School (AHS) diploma through a curriculum of instruction that aligns with adult education and literacy activities and other core programs and one-stop partners. The curriculum includes the development of career pathways which provide access to employment and training services for students in the Adult High School program. Course and graduation requirements are in alignment with the standards established by the State Board of Education, the local education agency, and the local community college. The AHS diploma is issued in cooperation between the local boards of education and the community college. Adult High School records and transcripts are maintained and issued by the community college where the AHS diploma was awarded.

## English as a Second Language (ESL):

English as a Second Language classes are designed especially for adults whose native language is not English and who want to improve their English. Instruction is offered in listening, speaking, reading and writing. ESL classes are provided on campus, in the community and in workplace settings.

## S.O.A.R. (Skills, Opportunity, Awareness and Readiness):

S.O.A.R. is specifically designed to meet the needs of adults with intellectual disabilities. Students in this program must be at least 17 years old. The focus of the program is on helping the individual become more independent and self-directed by acquiring basic literacy and life skills needed to function successfully in daily living.

Classes are built around the student's strengths and goals. The curriculum covers functional academics, community living, health and safety, leisure activities and humanities. Students have computers and other technology available. They take part in campus and community activities.

Eligibility Criteria: To be eligible to participate in the S.O.A.R. program, an individual must be 17 or older, and (a) high school graduate (O.C.S.) or (b) must complete an Intake interview and assessment. Students must be able to be tested, adhere to the college Code of Conduct, and be able to perform activities of daily living (or be accompanied by an approved one-on-one assistant).

Classes are offered at no cost to the student and are currently held at the North Campus in Rowan County and at the South Campus in Cabarrus County and at other off-campus locations. Admission and enrollment in this program are limited.

[www.rccc.edu/precollege/about-the-soar-program/](http://www.rccc.edu/precollege/about-the-soar-program/)

## R3 Career Services/Human Resources Development:

If you need to receive further training to successfully enter the workforce or to apply for a different job, the R3 Career Services program (Human Resources Development program) provides short-term pre-employment training and career coaching designed for the unemployed or underemployed adult. Training includes:

- Learning how to find a job
- Building skills necessary for obtaining employment
- Exploring various career options
- Learning basic computer skills, including computerized job searching
- Improving reading, math, and locating information skills
- Earning a career readiness certification

Tuition for these classes will be waived for the unemployed or underemployed student.

The R3 team also assists individuals with exploration of funding resources for all training through partner programs and the Continuing Education Scholarship.

For additional information, please contact R3 Career Services at 704-216-7201 or [r3@rccc.edu](mailto:r3@rccc.edu).

## Personal Enrichment:

Personal enrichment courses are offered throughout the year in all areas of interest ranging from computer skills courses to physical fitness and wellness courses. Most of these courses have no admission criteria. People interested in taking these courses may register by contacting the Navigation Station for additional information about the dates, times, locations and costs associated with these courses. Registration and payment is available online through WebAdvisor. For additional information, please visit the Rowan-Cabarrus website: [www.rccc.edu/enrichment](http://www.rccc.edu/enrichment)

## Workforce Development Courses

Corporate and Continuing Education offers a wide variety of workforce development courses to individuals and to employers for their incumbent workforce. Many of these courses provide not only continuing education credit, but also certification at local, state or national levels. CPR, Certified Nursing Assistant, EMT, Fire Safety, Law Enforcement certification and recertification, leadership development, customer service, project management, and Lean/Six Sigma.

Courses are offered throughout the year. Some courses have prerequisite training or certification that must be met before enrollment. Please contact the Navigation Station for the most current information related to the specific course or visit the Rowan-Cabarrus website: [www.rccc.edu/corporatecontinuing](http://www.rccc.edu/corporatecontinuing)

Tuition and fees for these courses are variable, based on the number of contact hours of the course.

## Tuition and Fees

All students, both college degree and continuing education, are able to pay tuition and fees through WebAdvisor.

### Tuition, Fees and Related Costs – Curriculum Courses

Tuition and fees are set by the North Carolina State Board of Community Colleges and the General Assembly (NCGA) and are subject to change. Any changes will be announced by the NCGA in July of each year and will be effective beginning each fall semester. Tuition and fees are due at each registration period by the payment date listed for each registration period. Please visit the college website for payment due dates: [www.rccc.edu/recordsregistration/tuition-and-fees](http://www.rccc.edu/recordsregistration/tuition-and-fees).

### Tuition

Because the state helps pay the tuition of North Carolina residents out of tax dollars, tuition for North Carolina residents is \$76.00 per credit hour, up to and including 16 credit hours. There will be a maximum charge of \$1,216.00 per semester. Tuition for non-resident students is charged at the rate of \$268.00 per credit hour with a maximum charge of \$4,288.00 per semester. The College accepts American Express, Discover, MasterCard, VISA credit cards for registration payment. For current tuition rate information, please refer to the website: [www.rccc.edu/recordsregistration/tuition-and-fees](http://www.rccc.edu/recordsregistration/tuition-and-fees)

#### 2020-2021 Tuition Rates

North Carolina Residents:		Non-Resident Students:	
Credit Hour	Tuition	Credit Hour	Tuition
1	\$ 76.00	1	\$ 268.00
2	\$ 152.00	2	\$ 536.00
3	\$ 228.00	3	\$ 804.00
4	\$ 304.00	4	\$1,072.00
5	\$ 380.00	5	\$1,340.00
6	\$ 456.00	6	\$1,608.00
7	\$ 532.00	7	\$1,876.00
8	\$ 608.00	8	\$2,144.00
9	\$ 684.00	9	\$2,412.00
10	\$ 760.00	10	\$2,680.00
11	\$ 836.00	11	\$2,948.00
12	\$ 912.00	12	\$3,216.00
13	\$ 988.00	13	\$3,484.00
14	\$1,064.00	14	\$3,752.00
15	\$1,140.00	15	\$4,020.00
16	\$1,216.00	16	\$4,288.00

Tuition rates are subject to change by action of the General Assembly. Decisions regarding this change may not be in effect prior to publication of this catalog.

A resident student is generally defined as one whose legal residence has been in North Carolina for at least 12 months before enrollment or re-enrollment in the college.

### Senior Citizens (age 65 and older)

Effective summer 2018, the North Carolina Community College System established policies that permits senior citizens to attend courses without payment of tuition. For additional information, refer to the College website.

### Student Fees

North Carolina State Board Code and Rowan-Cabarrus Community College Procedures require that all fees charged to students be approved annually by the Board of Trustees. All student fees provided below have been approved. Current fees are published on the College's website and are set per academic year and are subject to change.

#### REQUIRED STUDENT FEES

##### Campus Access Fee

All students pay a campus access flat fee per semester/term which supports parking, security systems, student accident insurance, remote notification and public safety infrastructure, and other enhancements of access to college facilities. This fee is refundable only if the student completely drops all courses by the refund deadline as published in the academic calendar.

##### Graduation Fee

Curriculum students will pay a fee each semester, regardless of participation in the ceremony. This fee offsets the costs of degree, diploma, or certificate production, as well as the cap and gown for the ceremony. This fee is non-refundable.

##### Student Activity Fee

Students at Rowan-Cabarrus are required to pay an activity fee for fall, spring and summer semesters, regardless of the number of credit hours enrolled. This fee covers student activities coordinated by the SGA. Accident insurance, which covers hours while in school hours in school, is required and included in the Student Activity Fee. Students are covered while participating in scheduled, sponsored and supervised activities of Rowan-Cabarrus.

##### Technology Fee

Students at Rowan-Cabarrus Community College pay a technology fee for fall, spring and summer semesters. Technology fees cover the cost of instructional supplies, materials, computers and other technology support. Technology fees are charged on a pro-rate basis depending on the number of credit hours for which the student is enrolled.



### Required Curriculum (Health Programs) Fees

Rowan-Cabarrus health programs have other required fees that are incurred at the time of registration. Such fees could include cost for test preparation, liability insurance, testing fees, uniforms, pinning fees, lab fees, and more. Students receive a list of these fees at the respective Program Information Session.

### OTHER POTENTIAL STUDENT FEES

#### ART/Photography Fee

Students choosing to enroll in ART 261 – Photography I will be charged a material fee to cover expenses including, but not limited to, film, printing paper, chemistry, and facility rental.

#### Ceramics Fee

Students choosing to enroll in ART 283 and ART 284 will be charged a fee to cover the cost of facility usage and materials.

#### Lab Fee

Curriculum students will pay a lab fee for courses that have an associated lab.

#### Official Transcript Fee

Rowan-Cabarrus Community College has authorized the National Student Clearinghouse to provide transcript ordering via the web. Students may pay through this service when ordering with any major credit or debit card.

#### Professional Liability Insurance

Cosmetology, Early Childhood Education, Dental, Nursing, Radiography, Occupational Therapy Assistant and Physical Therapy students are required to purchase student professional liability insurance. Students in Continuing Education courses which require patient care or direct client service are also required to have professional liability insurance. The Rowan-Cabarrus Cashier's Office can provide additional information about this fee.

#### Retest Fee

Students choosing to retest will pay a fee to cover the cost of the test. The cost will vary depending on the test or inventory type.

#### Textbooks and Supplies

The cost of textbooks and supplies varies with the program of study. These items may be purchased from the online bookstore. The online bookstore accepts MasterCard and VISA credit cards for payment of textbooks and other merchandise.

### Electronic Textbook (eText) Fee

Some courses have an e-Text fee attached to the course at the time of registration. The fee is mandatory and includes the e-Text and digital learning materials. The eText automatically delivers to the student's Blackboard account at the beginning of the course.

### Tuition Refund Policy

Tuition, as well as the refund policy, are set by the North Carolina State Board of Community Colleges and the General Assembly, and are subject to change. The tuition refund policy states:

- A 100 percent refund shall be made if the student officially withdraws prior to the first day of class(es) of the academic semester or term as noted in the academic calendar.
- A student is eligible for a 100 percent refund if the class in which the student is officially registered is cancelled due to insufficient enrollment.
- A 75 percent refund shall be made if the student officially withdraws from the class(es) prior to or on the official census date of the semester.
- For 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 withdraws prior to the first day of the class. A 75 percent refund shall be made if the student officially withdraws from the class prior to or on the census date of the class.

Official withdrawal for a refund involves completing the proper online withdrawal drop form ([www.rccc.edu/recordsregistration/online-drop-form](http://www.rccc.edu/recordsregistration/online-drop-form)) prior to or on the census date of the class.

Students who do not plan to attend must drop/withdraw by submitting the Online Withdrawal Form. Any student registered for any class as of the first day of the semester, will be responsible for 25% of tuition, unless the instructor has reported you as never entering the class.

Any student enrolled who is in the military reserve or National Guard who may be called to Active Duty that makes it impossible for them to complete their course requirements, will be granted a full refund for military purposes. The student must provide official deployment documentation before reporting to or upon their return from service to the Director of Admissions or Registrar for a refund to be considered.

See the academic calendar on the College website for the census date of each semester. Refund information is available online under the academic calendar.

# Financial Aid and Veterans Benefits

## Financial Aid

Many students seek some form of financial aid to help meet their college expenses. Students seeking college degrees, diplomas and some certificates may qualify for state or federal assistance. Individuals taking continuing education coursework, certain curriculum certificate programs, and special credit majors (undeclared or non-degree seeking) are not eligible to receive state or federal grants, or alternative loans.

Financial aid programs are available in the form of scholarships, grants, private loans, and work-study programs. You can qualify for financial aid if you are:

- Accepted for admission in an eligible program as a student; and
- Demonstrate eligibility by completion of the online FAFSA (Free Application for Federal Student Aid) form: <https://fafsa.ed.gov>

Rowan-Cabarrus Community College's school code for the FAFSA is 005754 for all campuses. Check the Rowan-Cabarrus website for additional and detailed information: [www.rccc.edu/financialaid](http://www.rccc.edu/financialaid).

The College serves as a referral agency for:

- Veterans Benefits
- Social Security
- Vocational Rehabilitation
- Department of Social Services

The College serves as a disbursing or coordinating agency for:

- Federal Work-Study
- Federal Supplemental Educational Opportunity Grants (SEOG)
- Federal Pell Grant
- North Carolina Education Lottery Grant
- North Carolina Community College Grant
- Alternative loans
- North Carolina Child Care Grant

## Scholarships

Various scholarship opportunities are available through Rowan-Cabarrus Community College. Check the Rowan-Cabarrus website - often for updated scholarship information: [www.rccc.edu/paying-for-college](http://www.rccc.edu/paying-for-college). Most scholarship applications are available in the spring of each year for the following fall semester.

The Financial Aid office can provide you with information on other types of aid that may be available. In addition to scholarships and grants, many Rowan-Cabarrus Community College students are employed through the federal college work-study programs on a part-time basis in offices, labs, libraries, or other campus locations. Work-study compensation counts as part of your financial aid package.

Applications for financial aid are accepted throughout the year, and assistance will be given as funds are available. Students must meet Satisfactory Academic Progress (SAP). Check the website: [www.rccc.edu/financialaid](http://www.rccc.edu/financialaid) for the specific requirements regarding Satisfactory Academic Progress.

For more information on financial aid, contact Financial Aid at 704-216-RCCC (7222).

## Financial Aid and Scholarship Refunds

Students that have funds remaining after tuition, books, and fee charges are paid receive the remaining balance usually within in 6-8 weeks of the beginning of the semester. Every curriculum student will receive a BankMobile packet in the mail. Refunds are delivered via the option selected when activating BankMobile. Select your refund preference and make your refund selection online by visiting [refundselection.com](http://refundselection.com). Once your refund preference is selected, funds are sent from Rowan-Cabarrus to BankMobile who then disburses the refunds according to your selection. If you want the fastest access to your money, simply choose to have your refunds deposited directly into your Vibe account — a fully functioning FDIC Insured checking account. (Please note: In order to receive a refund, *you must select your refund preference as soon as your code arrives in the mail.*)

## Textbook Purchases

Students with financial aid or scholarship awards may purchase textbooks and supplies through the on-line bookstore. Rental options are not available for financial aid and scholarship recipients.

## U. S. Department of Veterans Affairs Benefits

Rowan-Cabarrus Community College programs are approved by the North Carolina State Approving Agency for the enrollment of persons eligible for education assistance benefits from the U.S. Department of Veterans Affairs (VA). Entitled veterans, eligible spouses, and dependent children who have applied, met all admission requirements, been fully accepted, and have registered for classes, may be CERTIFIED to the U.S. DVA Atlanta, Georgia office as enrolled and in pursuit of an approved program of education.

It is the responsibility of the veteran to request an official transcript(s) from the last high school and all colleges attended. Transcripts must be sent directly from the school to Rowan-Cabarrus Community College. Students can only be certified for benefits for one semester, unless all transcripts have been received and evaluated. Students may be certified only for the classes required for completion in their approved program of study.

Veterans receive educational benefits on the following basis:

- Arts and Sciences Courses - Credit Hours per Week
- Occupational Courses - Credit Hours per Week
- Tele-Course, Hybrid or Internet courses may change your eligible credit hour certification.

Check the Rowan-Cabarrus Community College website [www.rccc.edu/financialaid/about-veterans-affairs](http://www.rccc.edu/financialaid/about-veterans-affairs) for additional information.

## **Grades and Progress Reports**

Records of progress are kept by this institution on veteran and non-veteran students alike. Progress records are furnished to the students, veterans, and non-veterans alike at the end of each scheduled school term through WebAdvisor.

Rowan-Cabarrus is a Service-member Opportunity College (SOC). Students who may have transferable credit are encouraged to submit their documents to the Rowan-Cabarrus Office of the Registrar in Student Services. Refer to the catalog section on Academic Policies and Procedures.



# College Policies and Procedures





# Academic Policies and Procedures

## Annual Notice to Students of their Rights under FERPA.

The Family Educational Rights and Privacy Act of 1974 (FERPA) is a federal law that governs the maintenance of student records. This act, with which the College intends to comply fully, protects the privacy of educational records, establishes the right for students enrolled to inspect records kept by the College about the student and the right to correct inaccuracies in the records.

FERPA affords students four primary rights:

- The right to inspect and review your educational records;
- The right to request amendment to your record if you believe it is inaccurate;
- The right to provide written consent before Rowan-Cabarrus discloses personally identifiable information from your educational records;
- The right of notification of FERPA rights at least annually. ([www.rccc.edu/ferpa](http://www.rccc.edu/ferpa))

Rowan-Cabarrus recognizes its responsibilities to students in maintaining accurate and confidential student records. We also recognize parents may wish to access student grades, financial records, academic records, and other records. The College is, however, limited to the information we can share by the Family Educational Rights and Privacy Act (FERPA) that protects and governs the release of certain student records.

When a student, regardless of age, enters an institution, all rights to inspect and review the education record transfer from the parent to the student under FERPA. Student's educational records are confidential and only shared by a College official with other Rowan-Cabarrus administrators or lending agencies that have a legitimate need to know this information. With a student's permission, the College will share such information as academic records, account/billing information, and/or financial aid information, with whomever the student may choose to designate.

### How do you, the student, permit release of your educational records?

Rowan-Cabarrus wants to assure that you, the student, have a clear understanding when requesting we release any information pertaining to your educational record. In that effort, any student who permits the College to release his/her student record information must complete and submit the Consent for Release of Information form to a member of the Student Advocacy Services department or the Office of the Registrar for consultation.

## What are Educational Records?

Educational records include, but not limited to the following:

- Rowan-Cabarrus Student ID#, SS#;
- Gender, race or ethnicity;
- Residence status;
- Class schedule;
- Academic Record – Transcript, Grades/GPA and academic standing;
- Test scores;
- Financial records – Financial Aid, Student account or billing;
- Disciplinary records; and
- Employment records of student workers

## Directory Information

FERPA does allow that Rowan-Cabarrus officials may disclose appropriately designated “directory information” without student written consent. Directory information is information contained in a student's education record and generally considered to cause no harm or an invasion of privacy if released. Rowan-Cabarrus officials declare the following items as directory information and can be made available to the public. Students may request to withhold directory information, except where it is required on campus, by notifying the Registrar in writing within the first five days after student enrollment that such information is to be made unavailable:

- Student's name
- Enrollment Status
- Credentials Awarded or Earned
- Dates of attendance
- Scholastic Honors

Rowan-Cabarrus has the right to refuse to release Directory Information. The College shall only release Directory Information to individuals or organizations that demonstrate, in the College's opinion, a legitimate educational interest in the information or provide a direct service to the College.

## Academic Load - Students

A full-time student is one who is enrolled in 12 or more credit hours of course work per semester. Average full-time enrollment for most students will vary between 15 and 18 hours of credit. Students who wish to carry more than 21 credit hours must have prior approval from the vice president of student services unless their curriculum requirements, as stated in the catalog, require more than 21 hours in a particular semester. Course schedules and course loads should be carefully planned through consultation with a program advisor. Note: The NC General Assembly has set tuition and registration fees on a “per credit hour” basis with a maximum charge for 16 credit hours. Please see Tuition and Fees section of this catalog for further details.

## Attendance Requirements

All students must attend class by the census date (found on each course syllabus) or forfeit their seat in the course. A student is expected to attend every class for which he/she is scheduled and to arrive on time. Instructors will keep an accurate record of class attendance. The student is responsible for contacting his/her instructor when unavoidable absences occur, and for maintaining contact every few days during any necessary extended absence. Students are responsible for withdrawing from any class, if they find they will be unable to complete an academic term. The student must complete and submit the online withdrawal form located at [www.rccc.edu/recordsregistration/online-drop-form](http://www.rccc.edu/recordsregistration/online-drop-form) when officially withdrawing from a class after the census date of the academic semester/term.

Instructional time missed is a serious deterrent to learning. A student is responsible for fulfilling the requirements of the course by attending all classes (including shops, labs, and clinics) and completing course assignments. Instructors will withdraw students who are accumulating absences and are not communicating with the faculty regarding academic progress in the course.

Distance education students are expected to login to their distance education courses by the census date (found on each course syllabus) and submit an assignment as required. Please refer to the Distance Education website for more information. Any student who does not enter or login to their distance education course by the census date will be reported as a no show and will be required to register for the course during another semester.

Some programs and courses at Rowan-Cabarrus Community College may have more stringent attendance requirements due to the nature of a course or program. These requirements are stated in the program description or course syllabus. Students will be informed in writing during the first class meeting of specific attendance requirements. Class attendance is calculated from the first officially scheduled class meeting (includes the drop/add period) through the last scheduled meeting.

## Class Schedules

Rowan-Cabarrus Community College schedules most traditional seated classes between 8 a.m. and 10 p.m., Monday through Thursday; and between 8 a.m. and 5 p.m. on Friday. Saturday classes may also be offered. Credit courses are offered during the day and during the evening hours from 6 p.m. to 10 p.m. The purpose of offering credit courses both day and evening is to provide flexibility in scheduling and optimum availability of courses. Schedule and course information are published by the College the prior to each semester and are available on the college's website at [www.rccc.edu](http://www.rccc.edu). Non-credit Occupational Extension and Personal Enrichment/Personal Interest courses are also offered both day and evening.

## Faculty Mentors

Career and Academic Advisors and students are strongly encouraged to develop an educational plan of work prior to registration. Each student enrolled in a program has access to a faculty mentor and career and academic advisor who assists the student in developing an educational plan. The student may seek assistance from any faculty mentor in his/her particular program of study (major). Use Navigate to document your educational plan from beginning to completion of your degree, diploma or certificate.

## Withdrawal Policy

If a student withdraws from a class after the end of the drop/add period and before the published withdrawal deadline, he/she will receive a grade of "W." A grade of "W" will appear on the student's transcript, but will not be considered as hours attempted in the accumulated Grade-Point Average. If a student does not withdraw before the published withdrawal deadline, the student will receive the grade earned.

Once a student has enrolled in class and has paid fees, that student remains a member of the class unless one of the withdrawals below occur.

**Student Withdrawal** - The student officially withdraws from the course by completing the necessary printed or web form available at the following website address: [www.rccc.edu/recordsregistration/withdrawal-policy-process/](http://www.rccc.edu/recordsregistration/withdrawal-policy-process/)

**Faculty Withdrawal** - An instructor may withdraw the student if the student has not met attendance requirements based on the course syllabus. Student should maintain ongoing communication with the instructor in person, via telephone, or campus email, to discuss the circumstances of the ongoing absence and plan their efforts to complete missed assignments.

**Administrative Withdrawal** - Administrative withdrawal may be implemented as part of mediated resolution to violations of the Campus Code of Conduct and appropriate documentation may appear on the student's official transcript, as needed.

**Medical Withdrawal** - Students may request a medical withdrawal based on injury, illness, or psychological/psychiatric disorder. A Medical Withdrawal will be granted for all courses in the enrolled semester. Medical Withdrawals will not be granted for individual course(s). A Medical Withdrawal request must be made within 30 days of last date of class attendance, and prior to future enrollment.



**Military Withdrawal** - A student may withdraw from courses due to call for Active Duty for military purposes. The student must provide official deployment documentation before reporting to or upon their return from service, to the Registrar.

Rowan-Cabarrus Community College reserves the right to make changes in the regulations, courses, fees, and other matters of policy and procedure when necessary.

## Grading

Rowan-Cabarrus Community College operates on a grade-point system, and each student's academic standing is established by a grade point average (GPA) which is determined by numerical values assigned to each grade. At the end of each semester, students will access final grades via WebAdvisor based on the following scale. Health programs and developmental studies courses are graded on a variation of this scale.

Grade	Grade Explanation	Quality Points
A	90-100 Excellent	4 quality points per semester hour
B	80-89 Good	3 quality points per semester hour
C	70-79 Average	2 quality points per semester hour
D	60-69	1 quality point per semester hour
F	<60 Failing	0 quality points
I	Incomplete	0 quality points
W	Withdrawn	0 quality points
AU	Audit	0 quality points
SR	Senior Audit	0 quality points
CE	Credit by Exam	0 quality points
P	Passing, Developmental	0 quality points
R	Repeat, Developmental	0 quality points
CC	Course Completed	0 quality points

\*Students enrolled in Associate Degree Nursing, Practical Nursing programs, Dental Assisting, Occupational Therapy Assistant, Physical Therapist Assistant, and Radiography should refer to the specific program webpage for the numerical grade required in related courses. Each program will list the required minimum grade for admission to and continuation in the program. All health program students should refer to the specific program handbook regarding the minimum grade to be earned for program progression.

In transition studies courses, a grade of 80 or above is required for satisfactory completion. The North Carolina Community College System has established this minimum standard for satisfactory completion of developmental courses. Students earning numerical grades below 80 will receive the grade of "R" (Repeat) and must register again for the course. Transition studies courses are noncredit courses and are not included in the Grade-Point Average (GPA).

## Grade Appeal Procedure

Students must issue the request for appeal of an in-course grade or final course grade to your faculty member within 5 business days of receiving a grade or forfeit the right to appeal. If resolution is not reached, the student may proceed through the Formal Review procedure. Visit the College website for information regarding grade appeal requests: [www.rccc.edu/civility/grade-appeal-request/](http://www.rccc.edu/civility/grade-appeal-request/).

## Grade of Incomplete (I)

A grade of Incomplete (I) may be assigned by the instructor for any student whose coursework is of passing quality which represents a significant amount of the requirements for a final grade, but is incomplete due to recent illness, accident, or recent death in the immediate family. Students, who need additional time to complete the objectives of a course due to either of these unusual circumstances beyond the student's control, should contact the Instructor and request a grade of incomplete. All incomplete work must be submitted and graded by the last day of the following semester/term.

The grade of "I" is computed in the Grade-Point Average as "0" quality points. However, when a student completes the provisions necessary for the removal of an "I," the "I" will be removed from the student's record and replaced with the grade earned. The GPA will then be recomputed using the grade earned. If course requirements are not met by the deadline given, the grade of "I" will automatically be changed to a grade of "F." The student must register again for the course.

Any student who has a grade of "I" in any course at the end of the term will not be considered for Scholastic Honors for that semester/term. To avoid jeopardizing this honorable mention, students should not delay completing all course objectives by the deadline agreed upon by the instructor and student.

## Grade-Point Average (GPA)

The GPA for one semester is obtained by the following method: The quality points for each course are found by multiplying the appropriate grade point value for the grade earned by the semester hour credits assigned to the course. The total grade points for all courses in the grading period are added. Dividing the total of the grade points by the total of the semester credit hours gives the grade-point average for the semester.

Example:

Course	Grade	Credit Hours	Grade Points	
BIO 168	A	4	=	16
ENG 111	B	3	=	9
PSY 150	B	3	=	9
ACA 122	C	2	=	6
MAT 161	D	3	=	3
TOTAL		15		TOTAL 43
GPA		43 / 15 =		2.86

Grade of "A" earned on a three-semester hour credit course equals 12 grade points.

## Cumulative Grade-Point Average

The cumulative GPA is determined by using the total grade points in two or more semesters divided by the total course credits attempted in two or more semesters.

## Academic Standards

Students must maintain satisfactory academic standards. Academic evaluation of student performance occurs at the end of each semester. This evaluation may be neither arbitrary nor capricious and must be consistent with previously announced criteria. Minimum satisfactory academic performance is defined as maintaining a cumulative Grade-Point Average (GPA) of at least 2.0 (a grade of "C").

## Advising Students Who Experience Academic Difficulty

Instructors are responsible for keeping students informed regularly about their progress in individual courses at each measurement point (chapter tests, mid-terms, finals, etc.). Instructors and advisors are responsible for assisting students who are experiencing academic difficulty. Instructors should issue an early alert through the Navigate tool for students who are experiencing academic difficulty.

Advice to help students improve performance may include, but is not limited to, completing transition education courses or subcomponents of transition programs, carrying a reduced course load, special tutoring, or repeating selected courses. Semester grade reports can be accessed through WebAdvisor. The faculty mentor and student should arrange a conference with an academic advisor whenever the nature of a student's academic difficulty is beyond the scope of the instructor or faculty mentor's ability to assist. Failure to maintain satisfactory academic standards will result in academic probation and can result in academic suspension.

## Academic Probation

A student who fails to maintain satisfactory academic standards at the end of any term will automatically be placed on academic probation for the next term, and each term GPA will be monitored until an overall 2.0 GPA is achieved. A student placed on academic probation will not be allowed to register for classes until the student has (a) participated in an Academic Probation Workshop or (b) met with a Student Services Career and Academic advisor. Either of these establishes corrective conditions to help the student achieve satisfactory performance while continuing probationary enrollment. The hold on registration would then be lifted and documentation of the corrective actions are recorded and maintained by the Career and Academic Advising team. A student on academic probation who continuously fails to achieve satisfactory academic standards for three consecutive semesters is subject to academic suspension and will not be allowed to register for the next term. The Director of Enrollment in the Division of Student Success or his or her designee must approve re-enrollment following the academic suspension period. At each level of academic probation, a member of the Career and Academic Advising team will explain the probationary period and requirements to students. All students enrolled in college credit courses are subject to maintaining the College's satisfactory academic progress policies.

## Academic Suspension

At the end of each semester, the advising staff, from the direction of the Director of Enrollment in the Division of Student Success or his or her designee, will review the cases of all students on academic probation who failed to achieve satisfactory academic standards within the stated time. After one semester of academic suspension, a student may apply for readmission to the program from which he or she has been academically suspended if the sequence of course offerings make readmission possible. The Director of Enrollment or his or her designee must determine approval for reenrollment.

## Academic Appeals Committee

The Director of Enrollment in the Division of Student Success refers appeals of academic suspension to the Academic Appeals Committee and the Vice President of Student Success Services no later than five days after receipt. If the academic appeals committee reverses suspension, the student will be afforded the option to register for courses in the applicable term.



## Scholastic Honors

The following scholastic honors lists are posted each semester on the Rowan-Cabarrus website:

[www.rccc.edu/studentsuccess/scholastic-honors](http://www.rccc.edu/studentsuccess/scholastic-honors).

Scholastic Honors are defined as below:

### President's List

A full-time student achieving a grade-point average of 4.0 for the semester will be recognized on the President's List. To be eligible for the President's List, the student must be a full-time student enrolled in a minimum of 12 credit hours.

### President's Circle

A part-time student achieving a grade-point average of 4.0 for the semester will be recognized in the President's Circle. To be eligible for the President's Circle, the student must be enrolled in a minimum of 6 hours and a maximum of 11 hours.

### Dean's List

A full-time student obtaining a grade-point average of 3.5 or above for the semester will be recognized on the Dean's List. To be eligible for the Dean's List, the student must be a full-time student enrolled in a minimum of 12 credit hours.

### Honors List

A student obtaining a grade-point average of 3.0 or above for the semester will be recognized on the Honor's List. To be eligible for the Honor's List, the student must be enrolled in a minimum of six credit hours.

Note: Since transition courses are non-credit courses, they are not included in the total hours required for Scholastic Honors.

## Course Residency Requirement

A minimum of 25 percent of the total number of credit hours required for graduation in a particular program must be taken at Rowan-Cabarrus Community College. No more than 75 percent of required credit hours can be accepted for transfer credit.

## Course Substitution

Rowan-Cabarrus expects that students will complete courses required for his/her program of study. If a student wishes to request a substitution using a course previously taken at Rowan-Cabarrus Community College or another institution, it should be discussed with the program chair upon entering their program of study. The submission of a course substitution is at the discretion of the program chair prior to enrollment. If approved, completed documentation will be submitted to the Office of the Registrar for review and validation.

## Course Repeat Rule

Students may repeat a course for which they received credit one time, regardless of the grade received, unless specified in the curriculum. Although both grades will appear on the student's record, only the higher grade will be counted toward the cumulative grade-point average.

For students receiving Veteran's Benefits, approval is required prior to repeating any course for which a final grade of "F" was received. This can only be done once per course. If a passing grade of "D" or better was received, the course cannot be repeated for Veteran's Benefits. Courses for which a grade of "W" was received, may be repeated for Veteran's Benefits, providing the cumulative GPA indicates overall satisfactory progress to date. Approvals will be communicated through the campus Veteran's Benefits officer.

## Auditing Courses

An audit is the completion of a course for which no assessment is made or grade awarded. Students who wish to audit courses must register and pay tuition and fees associated with those courses. Financial Aid cannot pay for any audited course.

Audits must be declared and approved at the time of registration. Students must obtain approval from the instructor of the class.

Students auditing courses receive no academic credit but are encouraged to attend class, participate in discussions, and take examinations. Normal attendance policies will apply. Students withdrawing during the semester will be given a grade of "W." Audited coursework will not be considered for transfer credit toward any other Rowan-Cabarrus program. Audited courses are not eligible for transfer credit to another institution.

## Senior Citizens Audit (Age 65 and older)

Effective Summer 2018, the North Carolina Community College System established policies that permits senior citizens to audit courses without payment of tuition. Senior Citizens are not permitted to take the seat of a curriculum student, therefore, may only register on the last day of registration.

## Tests and Final Examinations

Tests and quizzes (oral and written), including comprehensive final exams, are given by the instructor in accordance with the approved course syllabus.

## Transfer of Credits - College Coursework

Transcripts from other regionally accredited institutions may be evaluated for transfer credit. Awarding of credits earned at a non-regionally accredited institution will be reviewed on a case-by-case basis.

Any student who wishes to have transfer credit evaluated by Rowan-Cabarrus Community College should request an official transcript from the transferring institution be sent to the Office of the Registrar. Courses submitted for transfer credit must be equivalent to offerings at Rowan-Cabarrus. The appropriate program chair and the academic vice president may make exceptions to the transfer of credits policy. Only courses with grades of a "C" or higher will be accepted for transfer. Quality points do not transfer. No more than 75 percent of required credit hours can be accepted for transfer credit. Only students who have applied and been accepted in to a program of study at Rowan-Cabarrus will receive an official evaluation of transfer credit.

Credit may also be awarded for appropriate scores on subject areas of the College Level Examination Program (CLEP), the Dantes Subject Standardized Tests (DSST), or the Advanced Placement (AP) Program. Official test results should be submitted to the Office of the Registrar.

Students receiving an Associate in Arts, Associate in Science, Associate in Engineering or Associate in Fine Arts degree from Rowan-Cabarrus will find those credits transferable to most colleges and universities. Students receiving an Associate in Applied Science degree will find their credits transferable to most private colleges in our area. Students should consult the receiving institution to determine the credits that will transfer from the program in which they are enrolled. A student may obtain general information about cooperative programs from the admissions office, and is responsible for seeking specifics and complete requirements from the school that awards the degree.

Rowan-Cabarrus is a Service-members Opportunity College (SOC) which means members of the military may receive academic credit for education and training completed while in service. Veterans may also receive credit for coursework completed while in the military which is applicable to the major selected at the College. Veterans must provide a transcript evaluated by ACE (American Council of Education) for award of the appropriate credit. Students should provide the necessary documents to the student services, records and registration area for evaluation.

Upon completion of evaluation of any transfer credit, notification will be sent to the student Rowan-Cabarrus email account.

## Reverse Transfer

The Reverse Transfer Program is a collaborative effort between North Carolina's Community Colleges and the University of North Carolina's 16 constituent institutions.

Students who transfer to a North Carolina university from one of the 58 North Carolina community colleges are given the opportunity to combine the credits earned at the university with credit already earned at the community college to determine if the associate degree requirements have been met.

Eligible students will be asked to participate when they transfer to one of the participating universities through their student services account. There is no cost to the student for sending information and awarding of the degree.

For more information, see the state website:  
[www.northcarolina.edu/reversetransfer](http://www.northcarolina.edu/reversetransfer)

## Credit by Professional Certificates

An enrolling student may request that professional certification with appropriate documentation be evaluated for full or partial course credit within his/her program of study. A student, who believes they may be eligible to receive such credit, should notify the program chair during the admissions process; however, a professional certification can be submitted at any time during the student's enrollment at the College. Professional certifications should be current. Program chairs can provide the student with information regarding time limits in order for credits to be awarded for a particular program of study.

Upon receipt of the original documentation of certification from the student, the program chair will evaluate for possible credit. Additional criteria may be required along with the certification to receive full course credit. For each area of certification, the program chair will determine the Rowan-Cabarrus Community College course equivalencies and submit appropriate Credit by Professional Certification paperwork to the department dean and the academic vice president, who have final approval.

Once approved, the credit will be added to the student's permanent record. No more than 75 percent of required credit hours for a program can be accepted for through transfer credit, which includes credit by professional certification.

Programs of study accepting appropriate Professional Certification:

- Air Conditioning, Heating and Refrigeration
- Automotive Systems Technology
- Automotive Light-Duty Diesel Technology
- Computer-Integrated Machining
- Construction Management
- Cosmetology
- Criminal Justice Technology
- Electrical/Electronic Technology
- Emergency Management
- Emergency Medical Science
- Engineering Technology
- Fire Protection Technology
- Healthcare Management Technology
- Information Technology
- Mechatronics
- Nursing
- Welding Technology

Please check the College website for updates and revisions to the technical programs of study that accept professional certification for full or partial credit. Examples of Professional Certification are ASE certificates or CPS credentials.

### Credit by Examination

Students enrolling at the College who believe they are proficient in a subject due to Continuing Education Units (CEUs), life experiences or professional certifications may request credit by examination. The examination may be written, oral, a performance test, or a combination of these.

To seek credit by examination, a student should obtain guidance from his/her faculty advisor, approval from the program head of the course in question, and must be registered for the course for which credit by examination is sought.

The instructor (or designee) must administer the examination for credit during the first eight class days of fall or spring semester and within the first three days of summer term. Tuition and fees for credit by examination are the same as for regular enrollment. For examinations completed satisfactorily with a grade of "C" or better, the instructor then completes a credit by examination form and submits it to the Office of the Registrar to award a grade of "CE". A student who is unsuccessful with the examination may not request a second attempt, but may remain in the course through completion of the semester. The decision of the examining faculty is final.

Credits earned by examination will be entered on the student's permanent record, but quality points will not be awarded for such credit. Credits earned by examination may be used to satisfy graduation requirements but cannot be used to satisfy the policy stating 25 percent of the credits required for graduation must be taken at Rowan-Cabarrus Community College. Hours earned

by credit by examination will not be used to satisfy VA or Pell Grant requirements. Hours earned by credit by examination are not transferable to other colleges. For further information, contact the program chair of your area of study or student services.

Students receiving financial aid, scholarships or third party payment of tuition are responsible for checking with the financial aid office before requesting credit by examination.

### Advanced Placement for High School Courses

The North Carolina High School to Community College Articulation Agreement provides a seamless process that joins secondary and post-secondary Career and Technical Education programs of study. The College collaborates with the Rowan and Cabarrus County high schools and Kannapolis City Schools in an effort to award advanced placement credit based on high school achievement. Details concerning specific requirements are available from counselors at the high schools.

### Degree, Diploma, and Certificate Requirements

Students who successfully complete the arts, fine arts, engineering or science programs will earn the Associate in Arts, Associate in Fine Arts in Visual Arts, Associate in Engineering, or the Associate in Science Degree. Students who successfully complete a two-year technical education program will earn the Associate in Applied Science Degree. The Diploma is awarded to student who satisfactorily completed in a one-year vocation program. Various programs offer certificates that can often be completed in one semester.

A student is eligible for graduation when he/she has satisfied the specific requirements of the College, the program, completed a minimum of 25 percent of required hours in residence at Rowan-Cabarrus Community College, and has earned a program grade point average of at least 2.0. Students accepted into programs with competitive entrance requirements may have to meet other graduation criteria.

Students who are continuously enrolled may graduate under the catalog for which they initially enrolled or may use the current catalog. See [Maintaining an Active Record](http://www.rccc.edu/recordsregistration/maintaining-an-active-record/), [www.rccc.edu/recordsregistration/maintaining-an-active-record/](http://www.rccc.edu/recordsregistration/maintaining-an-active-record/). A student's record will be made inactive if they do not enroll for two consecutive terms (summer is not included in this evaluation). A student with an inactive record will need to reapply for admission in order to enroll for classes. At this time, the student's catalog year and graduation requirements will be updated based off the active catalog for the semester the student returns. To activate your student record as a returning curriculum student: [www.rccc.edu/admissions/admissions-process/](http://www.rccc.edu/admissions/admissions-process/)



## Graduation Events

The College has an annual Graduation Fair at the end of Spring Semester. Graduates planning to participate in the Graduation Commencement Ceremony are encouraged to attend the [www.rccc.edu/recordsregistration/graduation-fair-tickets-cap-gown-tassel/](http://www.rccc.edu/recordsregistration/graduation-fair-tickets-cap-gown-tassel/) to pick up tickets, cap, gown and tassel. Commencement is held at the end of the Spring Semester. The specific dates for graduation activities are listed in the academic calendar.

## Graduation Honors

Students who graduate with a degree or diploma and complete with a program grade-point average of 3.5 through 3.99 will graduate “With Honors.”

Students who graduate with a degree or diploma and complete with a program grade-point average of 4.0 in will graduate “With High Honors.”

These designations are printed on the student’s degree and diploma. Students who earn Honors or High Honors will be provided with a gold cord to wear at the graduation ceremony. The following criteria are taken into consideration when determining Graduation Honors:

1. At least 25% of the total number of credit hours required in the student program must be completed at Rowan-Cabarrus
2. All courses required in the student program must be completed with a grade of “C” or higher

## Outstanding Student Awards

These awards are given to the graduates who have distinguished themselves by being most outstanding in terms of scholastic achievement, performance, and maturity of purpose during their program of instruction at Rowan-Cabarrus Community College.

## High School to Community College Articulation Agreement

The North Carolina High School to Community College Articulation Agreement is an agreement between the North Carolina Department of Public Instruction and the North Carolina Community College System. The articulation agreement provides a process that joins secondary and postsecondary Career and Technical Education (CTE) programs of study. The student can receive college credit for number of courses taken while in high school (articulated course list: [www.ncperkins.org/mod/page/view.php?id=38](http://www.ncperkins.org/mod/page/view.php?id=38)). For more information, high school students should see their counselor.

Rowan-Cabarrus Community College collaborates with Rowan and Cabarrus County high schools and Kannapolis City Schools in an effort to award advanced placement within the guidelines of the Articulation Agreement and based on the student’s high school achievement. Credit is awarded for only courses offered at Rowan-Cabarrus. Students who believe he/she may be eligible to receive credit will need to self-identify by contacting the Registrar’s Office after they have enrolled in the College.

## Student Records

The Office of the Registrar is responsible for maintaining student records by recording each student’s achievements into permanent educational records. These records, such as grades, grade-point average, and courses completed, are used to award degrees, certificates and diplomas. Student records, such as transcripts, are available for students to demonstrate their success to potential employers or other institutions of higher learning. For that reason, students are encouraged to understand their program of study and encouraged to review his/her record each semester, prior to registration, to assure program requirements are being met.

## Transcript Request Policy

In accordance with the Family Educational Rights and Privacy Act of 1974 (FERPA), students and former students needing official copies of their academic transcript must make requests electronically. Rowan-Cabarrus Community College has authorized the National Student Clearinghouse to provide transcript ordering via the web. This service provides 24-hour access to online transcript ordering through a secure website. This process is completely secure and can be delivered to your intended recipient electronically or by US Mail. For detailed information, refer to the College website at [www.rccc.edu/recordsregistration/transcript-request-policy](http://www.rccc.edu/recordsregistration/transcript-request-policy)

## Office of Accessibility

### Policies Regarding Students with Disabilities

The Office of Accessibility at Rowan-Cabarrus is available to assist students with disabilities in achieving their educational and vocational goals and to comply with section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990. The College's goal is to make Rowan-Cabarrus accessible for all students. In order to minimize the effects of a student's disability on his/her classroom performance, a reasonable adjustment or accommodation is provided as long as an accommodation or an adjustment does not alter a published course competency or course standard. Services are provided based on documentation provided to an Office of Accessibility counselor by the student and the individual's particular need and circumstance.

It is the mission of the Office of Accessibility for students with disabilities to have equal access to learning at Rowan-Cabarrus Community College. Believing that students with disabilities can better advocate for their own needs with greater success, the Office of Accessibility strives to empower students at every step.

### Request for Assistance or Accommodation

Students seeking assistance or accommodation are responsible for making their disability known to the Office of Accessibility counselors in student success services. Students may elect to disclose a disability at any time. Rowan-Cabarrus may not seek out and identify students with disabilities. The Office of Accessibility provides support services in curriculum, continuing education and pre-college courses. Because disability accommodations are not automatic and often require specific arrangements, students seeking disability accommodations should make contact with the Office of Accessibility for any additional information as soon as possible. Approved accommodations cannot be retroactive.

Students are encouraged to contact the Office of Accessibility as soon as possible. Requests for accommodations should be made at least three weeks prior to the first day of class for which the accommodations are requested. Approved accommodations are not retroactive.

All attempts will be made, but without minimal advance notice, Rowan-Cabarrus cannot assure that all appropriate accommodations can be accomplished prior to the first class.

### Required Documentation

Students seeking assistance or accommodation must provide documentation from an appropriate professional. Required documentation includes the results of medical, psychological, educational and/or emotional diagnostic

tests or evaluations that verify both the need for accommodation, and the specific type of accommodation requested. Specific documentation guidelines are available through the Office of Accessibility.

Documentation will be considered confidential and will be maintained by the Office of Accessibility. Disability documentation is not a part of the academic record. This information will be considered confidential and is to be shared within the institution on a need-to-know basis only. Disability records may be destroyed five years after the student's last enrollment.

For students with learning or other non-apparent disabilities, documentation should be within three years. Students who provide documentation showing a history of disability may be granted accommodations for one semester in order to allow the student an opportunity to update older documentation; however, accommodation beyond one semester will be dependent upon the student providing current documentation.

Rowan-Cabarrus may also require an updated evaluation or assessment of disability.

### Accommodation Plan

Upon a student's request for accommodation and a review of appropriate documentation, the student and an Office of Accessibility counselor will develop an accommodation plan in consultation with faculty as appropriate or necessary. The plan will outline specific accommodations or adjustments. These may include physical, testing, instructional, academic support and/or equipment accommodations. Requested accommodations must be supported by documentation.

The accommodation plan may include a pre-determined schedule of meetings to monitor progress with an Office of Accessibility counselor. A copy will remain on file with the Office of Accessibility.

The accommodation plan must be reviewed and/or updated with each semester registration. Accommodations are not automatic and must be requested in advance. Accommodations will not be granted retroactively.

Students are expected to maintain contact with disability services as to the implementation and effectiveness of specific accommodations. Students should immediately report any concern regarding their accommodation plan to the Office of Accessibility.

Rowan-Cabarrus does not provide services of a personal nature outside of the classroom. Arrangements for personal services are the student's responsibility.

All students are expected to comply with college policies and regulations as outlined in the Rowan-Cabarrus Catalog/Student Handbook.

## Accessible Services, Materials and Equipment

### Instructor Notification

Instructor notification is not automatic and must be initiated by the student. Following class registration, the student must request an accommodation notification form through the Office of Accessibility. The student will then deliver the accommodation notification to each course instructor. The student must obtain the instructor's signature, provide a copy for the instructor, and return the completed form to disability services. Accommodation will not be in effect until the completed form is returned. Instructors teaching online courses may be notified by email from the Office of Accessibility.

### Classroom Notes

Students with specific functional limitations may request assistance with classroom notes. A determination of the method for obtaining classroom notes is based on disability documentation, course format and the course instructor's recommendation.

Classroom notes will generally be obtained by the utilization of a digital recorder or a volunteer classmate. Carbonless duplication paper is available upon request through the Office of Accessibility as well as a photocopy machine. Students are responsible for providing and operating the digital recorder and batteries.

When presenting an accommodation notification form, the student informs the instructor notes will be needed and asks for assistance to identify a volunteer. In the event that either the volunteer system or digital recorder is not successful, student or instructor should immediately contact the Office of Accessibility.

A volunteer note-taker or digital recorder does not excuse poor class attendance. Students receiving class notes accommodation should not expect notes for days missed unless special arrangements are made in advance.

Based on the inability to access reasonable and appropriate classroom notes using a digital recorder or volunteer, a student may be eligible for a staff note-taker/scribe. This accommodation will be determined on an individual basis. The student should contact and inform the Office of Accessibility regarding the cancellation of staff note-taker/scribe services. The staff note-taker/scribe will wait 15 minutes following the scheduled class start time. The staff note-taker/scribe will not remain in the classroom when the student is absent. If the student fails to arrive by the second class, the staff note-taker/scribe will assume that the student will be absent for the remaining classes. The student will be expected to obtain missed notes in the same manner as other students.

### Alternative Testing

Testing accommodations, based on disability documentation, may include extended time, reduced distraction environment, test scribe, test reader, computer use for written exams, enlarged print or use of a calculator.

The student is expected to make arrangements, at least two class days in advance, through the course instructor and Office of Accessibility. Actual test accommodations may be provided through the Office of Accessibility or the Testing Center based on the specific arrangements made by the student and course instructor. The instructor will be notified if the student is absent at the scheduled time.

### Accessible Materials

Students whose documentation supports an accommodation for printed material in an alternate format should contact the Office of Accessibility as soon as possible following registration. Availability of alternate format material may be limited and may require extended turnaround time, so students are encouraged to make a request for textbooks or other class-related materials well in advance. In converting printed text into an alternate form, the Office of Accessibility will try to honor the student's preference. However, depending on the time of the request, the availability of materials, the volume of materials, and the expected time for return, adjustments may be necessary. Such adjustment may include the student using appropriate assistive technology (CCTV or scan/reader computer software) available on campus.

Requests for accessible materials will be processed in the order in which they are received.

### Interpreters

Interpretation and transliteration services will be arranged for qualifying deaf and hard-of-hearing students for scheduled classes, labs, scheduled student activities, and appointments. Every attempt will be made to honor a student's communication preference; however, other arrangements may be made depending on the time of advanced notice and availability of interpreters.

Students must request services in advance to assure that services can be arranged. Students are asked to provide a three-week advance notice for scheduled classes and a one-week notice for scheduled activities or appointments.

Students who request interpreter services and plan to be absent or find that services are not needed must cancel arrangements immediately through the Office of Accessibility.



In the event of an unreported absence, the interpreter will wait 15 minutes following the scheduled class start time. The interpreter will not remain in the classroom when the student is absent. If the student fails to arrive by the second class, the interpreter will assume that the student will be absent for the remaining classes. The student will be expected to obtain materials in the same manner as other students.

If a student has three unreported absences in a given class, interpreter services may be terminated until the student meets with Office of Accessibility. The student will be notified in writing.

Students should report any concern or problem involving an interpreter to disability services.

## Adaptive Equipment

Various adaptive equipment or software for on-campus use can be made available to qualified students as a part of a specific classroom accommodation plan. However, any prescriptive or personal devices, including those for home use, are the responsibility of the student.

As a part of the accommodation plan, the qualified student will be able to sign out equipment from the Office of Accessibility. Other equipment, such as software or modified keyboards, will be available in the assigned classroom or LRC as requested.

Every attempt will be made to provide appropriate training to enable the student effective utilization specific equipment or software. Such training will require active student participation, advance notice, and additional time on campus.

## Personal Services

### Personal Attendants

Students are responsible for providing for their own personal health and hygiene needs along with their mobility needs within the classroom and around campus.

Due to regulations and space limitations, personal attendants generally may not attend class with the registered student unless the accommodation is supported by disability documentation as a health/safety issue and is included in the student's accommodation plan.

## Attendance

The Office of Accessibility does not have a role in determining course attendance policies. Students are expected to attend scheduled classes regardless of their disability. Students may request that instructors be informed as to the legitimacy of disability-related absences, but such notification will not excuse or alter the course attendance policy.

Students anticipating absences should notify the course instructor in advance. Students are also responsible for all missed assignments and material.

## Tutoring Services

Tutoring services are scheduled in specific content areas campus-wide through academic programs as appropriate. Qualified students are encouraged to request accommodations in order to utilize those services.

Students are responsible for individual tutoring or individual instruction outside of the scheduled activities offered through academic programs.

## Parking

Accessible parking is available in accordance with state and federal regulations. Students are required to follow all appropriate regulations and to have a North Carolina-issued permit visible when parked in an accessible or handicapped space.

Accessible parking is available on a first-come, first-served basis.

Any student wishing to address accessible parking issues should contact the Office of Accessibility.

## Grievance Process

Students who experience a problem and/or feel unfairly treated should attempt to resolve the problem informally with the Office of Accessibility.

Concerns regarding a specific accommodation will be resolved with the involvement of the student and the appropriate instructor, chair, academic dean, academic vice president, and vice president of student success services. See the website for additional information: [www.rccc.edu/civility/student-grievance/](http://www.rccc.edu/civility/student-grievance/)

## Program Evaluation and Development

In consultation with faculty and staff, the Rowan-Cabarrus Office of Accessibility will be responsible for evaluating services at Rowan-Cabarrus for students with disabilities and recommending changes in policies, procedures and services as appropriate.

The Rowan-Cabarrus Office of Accessibility will provide guidance and support to both faculty and staff in providing services for students with disabilities.

The Rowan-Cabarrus Office of Accessibility will provide in-service training and information to Rowan-Cabarrus faculty and staff as appropriate. Professional consultants in the area of services for students with disabilities may be utilized in specific cases and in staff development efforts.

For additional information and resources regarding disabilities for students in higher education, please see the following links:

[www.ahead.org/affiliates/north-carolina](http://www.ahead.org/affiliates/north-carolina)  
[www.ada.gov/](http://www.ada.gov/)  
[www.edpubs.gov/](http://www.edpubs.gov/)

## Sex Offenders

Persons who are registered sex offenders are required by state and federal law to disclose to local law enforcement their interest in attending college, verifying the dates, times and locations of the coursework of interest. Offenders may or may not be permitted to enroll and register for courses pending approval of the local law enforcement agency. Offenders who fail to comply with the state and federal law will forfeit their educational opportunity with Rowan-Cabarrus even if otherwise qualified.

## Special Credit Students

Some students wish to register for credit courses, but do not intend to complete a degree, diploma, or certificate program. For instance, students who would like to take courses at Rowan-Cabarrus over the summer. These students are registered as special credit students - no major declared. Tuition and fees are the same as for regularly enrolled program students. If these students later wish to apply credits earned toward a degree or diploma, they must declare a program/major. A change in status must be submitted when the student has earned 18 semester hours (including a college-level English and math course) as a special credit student. If not already established, at the time a program is declared the student must meet all the regular admission requirements for the program of choice.

## Undocumented Persons

Individuals who are not documented are eligible to take most courses in Continuing Education, and any course in Adult Basic Education and ESL without any restrictions. Enrollment in college credit courses is limited by the following guidelines from the NC Legislature:

- Must pay out of state tuition for the coursework selected.
- Must register at the last hour assuming space is available. Documented students have first priority for seat availability in all curricula.

Federal law prohibits states from granting professional licenses to students that without legal resident status in the United States. Therefore, admission of undocumented persons to programs leading to a professional license may not be permitted.

Undocumented students who are public high school students enrolled in approved college credit programs through Career and College Promise programs are not subject to this NC statute.

## Deferred Action for Childhood Arrival students (DACA):

Students must be under the age of 31 as of June 15, 2012, have continuously resided in the United States since June 15, 2007, up to the present time, have a high school diploma from public, private or home school, a GED or adult high school diploma, and have entered the U.S. at age 15 or younger.

- Not eligible for In-state tuition rate.
- May register for classes at any time during the registration period.

Federal law prohibits states from granting professional licenses to students who do not have legal residence in the United States. Therefore, admissions to programs leading to a professional license may not be permitted.

# Standards Governing Student Enrollment

## General Overview:

Students are both members of the external community, which includes Rowan-Cabarrus Community College, as well as members of the internal academic community of the College itself. As citizens of the external community, students are subject to all civil laws, the enforcement of which is the responsibility of civil authorities. As members of the academic community, students are subject to Rowan-Cabarrus Community College regulations and obligations. College students, as adults, are expected to exercise mature and responsible self-discipline, to behave with courtesy and integrity and to maintain appropriate academic standards as well as appropriate conduct standards. Failure to maintain required standards can lead to conditional enrollment or curtailment of enrollment. These standards and enrollment constraints are described in the following sections:

## Student Agreement Regarding Internet and Technology Use

Upon signing the college application, the student accepts and agrees to abide by the policy and responsibilities specified in Technology Acceptable Use Procedure. Further, with this educational opportunity also comes responsibility, and the student concurs that:

The following guidelines will be observed when accessing Rowan-Cabarrus technology resources:

1. Any use of college technology resources for illegal, inappropriate, or obscene purposes, or in support of such activities, is strictly prohibited.
2. Users are expected to use Rowan-Cabarrus facilities in a responsible and respectful manner.
3. Users must abide by all relevant laws, regulations, and contractual obligations relating to computer resources and networks.
4. Users must respect the privacy of other users.
5. Users are prohibited from transmitting, posting, or otherwise displaying material that is threatening, obscene, harassing, or defamatory.

Users are required to take all necessary steps to prevent unauthorized access to the Rowan-Cabarrus network and technology.

1. Users are responsible for the security of their passwords and accounts and must keep passwords confidential.
2. Users are not permitted to share accounts or passwords with anyone.
3. Users are responsible for logging out of all systems and accounts when they are not being used, or locking the computer when the workstation will be unattended.

4. All laptops and workstations that are part of or connected to the Rowan-Cabarrus network are secured with a password-protected screensaver with the automatic activation feature set at no more than 15 minutes.
5. Encryption of information must be used in compliance with any federal, state or local laws.

To prevent use of technology that adversely affects the ability of others to use the resources of the College, the following examples illustrate, but are not limited to, unacceptable use of computer resources:

1. Sharing personal Rowan-Cabarrus account credentials with anyone or logging into any system for use by another person.
2. Circumventing user authentication or security of any device, network, or account.
3. Wastefully using network resources for non-college related purposes, including consuming large amounts of bandwidth for prolonged periods of time.
4. Installation or use of non-business-related software on college owned devices.
5. Displaying images, sounds, or text containing nudity, obscenity or graphic violence (unless for educational purposes with prior CIO approval).
6. Accessing any website used to promote violence, intolerant, or hate content.
7. Knowingly downloading or uploading a virus or other malware.

Rowan-Cabarrus has the right to review any materials stored on any system provided by the College and to edit and remove any materials. I hereby waive any right which I may otherwise have in and to such materials.

## Student Agreement Regarding Testing Center Usage

Upon signing the college application, the student accepts and agrees to abide by the Student Testing Center Terms for Testing. Further, with this educational opportunity also comes responsibility, and the student concurs that:

- A valid photo ID is required for testing. Acceptable forms of ID include, but are not limited to; driver's license, student ID, passport, military ID, or other form of state or government issued identification.
- Students must know course name and number, instructor's name, and course type when scheduling make-up exams.

Students acknowledge that the Testing Centers are equipped with video surveillance equipment and they are being monitored and recorded while engaged in testing activities.

- Book bags, large purses, and coats are not permitted within the testing rooms. Students should not bring these items to the Testing Center. If the items are brought and will not fit in the secured locker, students can leave them in the Proctor area; however, the Testing Center staff is not responsible for security of these items.



- No electronic devices (cell phones, tablets, smart watches, etc.) are permitted within the testing rooms. Students with these devices will be required to place them in a secured locker while testing.
- No notes, books, or other supplemental materials will be permitted unless specifically stated on the instructor's "Conditions of Testing" form.
- No discussion or disruptive behavior of any type will be permitted in the Testing Centers.
- All tests will be taken in one sitting and returned to the Examiner/Proctor before leaving the Testing Center.
- The Examiner/Proctor may consult the Testing Director or security if suspicious or questionable behavior is observed. The rules of student behavior and sanctions also apply to the Testing Center.
- See the Examiner/Proctor and/or the Testing Director if you have questions regarding this agreement or a testing concern before receiving the test.

## Sexual Misconduct and Title IX

Rowan-Cabarrus Community College is committed to providing a safe and equitable learning environment for all students and employees. Title IX of the Education Amendments of 1972 ("Title IX"), 20 U.S.C. §1681 et seq., is a Federal civil rights law that prohibits discrimination on the basis of sex in education programs and activities. All public and private elementary and secondary schools, school districts, colleges, and universities receiving any Federal funds must comply with Title IX.

Under Title IX, discrimination on the basis of sex can include sexual harassment or sexual violence, such as rape, sexual assault, sexual battery, and sexual coercion.

If you have experienced sexual harassment or sexual discrimination, you should report or seek assistance as soon as possible. We recognize that deciding whether to make a report and choosing how to proceed are personal decisions that may evolve over time. At the time a report is made, you do not have to decide whether to request a particular course of action. In addition, you do not need to be certain whether an incident is defined as sexual harassment. Again, our goal is to provide a safe learning environment for all.

Rowan-Cabarrus encourages all individuals to report sexual harassment promptly through any of the follow avenues:

Title IX Coordinator  
Michael Hughes 704-216-3750 [michael.hughes@rccc.edu](mailto:michael.hughes@rccc.edu)

Deputy IX Coordinators  
Steve Cathcart 704-216-3777 [steve.cathcart@rccc.edu](mailto:steve.cathcart@rccc.edu)  
Kathy Hall 704-216- 3468 [kathy.hall@rccc.edu](mailto:kathy.hall@rccc.edu)

Online Reporting Form: [www.rccc.edu/civility/title-ix-sexual-misconduct/](http://www.rccc.edu/civility/title-ix-sexual-misconduct/)  
Navigation Station 704-216-7222  
Campus Security 704-216-7600  
Director of Campus Safety and Security 704-216-7230  
Any College employee is available to assist with reporting Title IX incidents

Students may also report anonymously through the Rowan-Cabarrus Director of Campus Safety and Security.

Students need to be aware that any Rowan-Cabarrus employee receiving information regarding sexual harassment is expected to notify a Title IX Coordinator. Only those designated as a campus confidential resource are exempt from reporting. The following are designated as confidential resources on campus:

Misty Moler, Assistant Director of Student Support Services, Student Wellness Center ([misty.moler@rccc.edu](mailto:misty.moler@rccc.edu), 704-216-3623)  
Joanne Rusnak, Office of Accessibility ([joanne.rusnak@rccc.edu](mailto:joanne.rusnak@rccc.edu), 704-216-3613)  
Holly Wagoner, Office of Accessibility ([holly.wagoner@rccc.edu](mailto:holly.wagoner@rccc.edu), 704-216-3639)

Rowan-Cabarrus prohibits any form of retaliation against the person filing a report or against anyone associated with the report. Any form of retaliation is considered a violation under Title IX and Campus Sexual Harassment Procedure.

The Campus Code of Conduct and the Title IX and Campus Sexual Harassment Procedure apply to all students, employees and visitors engaged in college-sponsored activities either on-campus or off-campus. Please refer the College website ( [www.rccc.edu/civility/title-ix-sexual-misconduct/](http://www.rccc.edu/civility/title-ix-sexual-misconduct/)) to review.

Rowan-Cabarrus encourages all community members to assist in the reduction of sexual harassment through exercising safe and creative intervention strategies rather than standing aside as a passive bystander. Safe strategies include watching out for your friends and classmates; believing someone if they tell you that they have experienced sexual harassment; reporting an incident you witness; and, if needed, calling 911 or campus security.

Visit [www.rccc.edu/civility/title-ix-sexual-misconduct/](http://www.rccc.edu/civility/title-ix-sexual-misconduct/) for the most current information on Title IX and sexual harassment.

# Campus Code of Conduct

[www.rccc.edu/civility/code-of-conduct/](http://www.rccc.edu/civility/code-of-conduct/)

## Campus Behavior Standards

The College reserves the right to maintain a safe and orderly educational environment for students and staff. Therefore, when in the judgment of college officials, a student or patron's conduct disrupts or threatens to disrupt the college community, appropriate disciplinary actions will be taken. Students are expected to conduct themselves in accordance with generally accepted standards of scholarship and morality. Community patrons are expected to conduct themselves in accordance with the accepted standards of good citizenship in the state of North Carolina. The purpose of this code is not to restrict student or patron's rights, but to protect the rights of individuals in their academic pursuits on the campus.

### 1. Academic Dishonesty

(a) Academic Integrity: The College prohibits taking or acquiring possession of any academic material (test information, research papers, notes, etc.) from a member of the College staff or another student without permission; receiving or giving help during tests; submitting papers or reports presented as the student's original work that are not entirely the student's own; or not giving credit for others' work.

(b) Network Files: Rowan-Cabarrus network files are provided to students for academic work. These files are not private and are subject to review for compliance with the College's acceptable use policy for technology, the Digital Millennium Copyright Act of 1998, and general copyright law.

### 2. Behavior

(a) Indecent Conduct: The College prohibits disorderly, lewd, or indecent conduct, including public physical or verbal action; language commonly considered offensive (not limited to, but including profanity) or distribution of obscene or libelous written or electronic material.

(b) Violence: The College prohibits mental, psychological or physical abuse of any person (including sex misconduct offenses) on college premises or at college-sponsored or college-supervised functions, including verbal or physical actions that threaten or endanger the health or safety of any such persons or which promote hatred or prejudice. This includes fighting and or other disruptive behaviors, which includes any action or threat of action that endangers the peace, safety or orderly function of the College, its facilities or persons engaged in the business of the College.

(c) Harassment: The College prohibits any act, comment, behavior, or clothing that is of a sexually suggestive, harassing, offensive, or intimidating nature. The College prohibits stalking, or behavior in any way interferes with another student's rights or an employee's performance or creates an intimidating, hostile or offensive environment. (This includes the display or navigation to pornography or other inappropriate websites and materials.) Harassment allegations that suggest discrimination based on gender will be resolved using the Sexual Misconduct Procedure.

(d) Disruption: The College prohibits any intentional obstruction or interruption of teaching, research, administration, disciplinary proceedings or other college activities, including public service functions, and other duly authorized activities on college premises or at college-sponsored activity sites.

(e) Failure to Comply: Refusal to adapt one's behavior to instructions of college officials is prohibited. If, in the opinion of college officials, clothing or behaviors (including gang colors, signs or symbols) are threatening, intimidating or offensive in nature, sanctions may be imposed immediately.

### 3. Use of College Property

(a) Purposeful Use of Campus Facilities: The College prohibits loitering without educational purpose or goal; therefore, individuals must be engaged in purposeful acts on campus that meet educational goals or in appropriate recreational and extracurricular activities.

(b) Use by Unattended Minors: The College prohibits minors under the age of sixteen (16) from being on the campus unattended. Minors are not allowed in classrooms, labs, shops, learning resource center or other instructional areas without college authorization. Parents and guardians whether enrolled in college or as a community patron, must remain with the minor child at all times. Violators will be asked to leave the premises. Early College, emancipated minors and dual-enrolled students are exempt from this requirement.

(c) Theft and Damage: The College prohibits theft of, misuse of, or harm to college property, or theft of or damage to property of a member of the college community or a campus visitor on college premises or at a college function.

(d) Occupation or Seizure: The College prohibits occupation or seizure in any manner of college property, a college facility, or any portion thereof for a use inconsistent with prescribed, customary or authorized use.

(e) Presence on College Premises: The College prohibits unauthorized entry upon the college premises; unauthorized entry into a college facility or a portion thereof which has been restricted in use; unauthorized presence in a college facility after closing hours; or furnishing false information to gain entry on the college premises or into a college facility.

(f) Assembly: The College prohibits participation in or conducting an informal or formal unauthorized gathering in a manner that threatens or causes injury to persons or property or that interferes with free access to, ingress or egress of college facilities, that is harmful, obstructive, or disruptive to the educational process or institutional functions of the College; or remaining at the scene of such an assembly after being asked to leave by a college official.

(g) Fire Alarms: The College prohibits setting off a fire alarm or using or tampering with any fire safety equipment on college premises or at college-sponsored activity sites, except with reasonable belief in the need for such alarm or equipment. In the event of a fire alarm sounding, students MUST evacuate the building, unless otherwise directed by a college official.

(h) Emergency Phones: The College prohibits the misuse of the emergency phones in college hallways in making false reports of emergencies, disturbances, physical injury or illness of students, employees or college visitors requiring attention of campus security or off-campus emergency personnel. Students activating the emergency phone are required to give their full-name, nature of the emergency, exact location of the emergency and stay “on the line” with the college official until released. Exception: If the individual activating the emergency phone believes they are in imminent danger from another person, they should provide as much information as possible before leaving the phone in the connected position.

#### 4. Drugs, Alcohol and Other Substances

(a) Drugs and Alcohol: Substances referred to under this policy include all illegal drugs, alcoholic beverages and misused legal drugs (both prescription and over the counter). The College prohibits possession or use of alcoholic beverages on college premises or at college-sponsored or supervised functions (including off-campus functions) unless otherwise permitted by a college administrator. The College prohibits being in a state of intoxication on college premises or at college-sponsored or supervised functions (including off-campus functions) or in a college-owned vehicle. The College prohibits possession, use, sale or distribution of any controlled substance, illegal drugs, or drug paraphernalia except as expressly permitted by law. Any influence which may be attributed to the use of drugs or of alcoholic beverages shall not be in any way limit the responsibility of the individual for the conduct or consequences of his/her actions.

(b) Tobacco and Food: The College prohibits eating and/or drinking in classrooms, shops, and labs or other unauthorized areas, unless otherwise permitted by college officials. The College prohibits use of tobacco products on campus (to include the campus parking lots), in college owned vehicles or in properties rented for the purpose of college use.

#### 5. Weapons

The College prohibits possession, storage, use or threat of use of firearms, weapons, ammunition, incendiary devices or explosives on college premises or in personal vehicles parked on college premises or at college-sponsored activity sites. This also includes unauthorized use of any instrument capable of inflicting serious bodily injury to any person. Possession or use of firearms or other weapons on college premises for instructional purposes must have the prior approval of the academic vice president.

North Carolina General Statute 14-269.22 makes it unlawful for any person to possess or carry, whether openly or concealed any gun, rifle, pistol or any other weapon of like kind as defined by the statute. That statute overrides the North Carolina concealed weapons act. Violation of this regulation will result in immediate and permanent expulsion, exclusion from college premises and arrest.

#### 6. Use of Technology

(a) Damage and Destruction: Destruction of or harm to equipment, software, or data belonging to the College or to others is considered unacceptable usage and is subject to disciplinary action. This may include altering, downloading, or installing software on college computers, tampering with computer hardware or software configuration, improper access to the College's network, and disconnection of college computers or devices. Refer to the College Internet and network services policy.

(b) Electronic Devices: Unless otherwise permitted by college officials, the College prohibits use of electronic devices in classrooms, labs and other instructional, event, or support facilities. All electronic devices must be turned off in the classroom, labs or other instructional support areas. Cameras, camera phones or other visual recording devices may not be used in restrooms, locker rooms, changing facilities or other areas where personal privacy is a reasonable expectation.

#### 7. Gambling and Gaming

The College prohibits gambling in any format on the campus. Rowan-Cabarrus also prohibits unstructured competitive gaming that fosters disruptive behavior. This prohibits participating on college premises or at college-sponsored activity sites where making a set wager or playing for money or material is involved.

#### 8. Forgery

The College prohibits forgery, alteration, duplication, or misuse of college documents, records, computers or instruments of identification with intent to deceive.

#### 9. Financial Irresponsibility

The College prohibits failure to pay college-levied charges, fees or fines, failure to repay college-funded loans, the passing of worthless checks to college officials or any fraudulent action when transacting business with the College or third party agent contracted by the College to provide services for students (i.e. bookstore, food service, e-cashiering).



## 10. Disciplinary Probation

The College prohibits violation of the terms of disciplinary probation during the period of probation. Additional violations of any college regulation during the probationary period will result in immediate review for additional sanctions.

## 11. Violation of Rowan-Cabarrus Policy, Rule or Regulation

The College prohibits violation of any Rowan-Cabarrus policy, rule or regulation published in hard copy or available electronically on the Rowan-Cabarrus website: [www.rccc.edu/civility/code-of-conduct](http://www.rccc.edu/civility/code-of-conduct).

## 12. Violation of Law

The College prohibits violation of any federal, state or local law.

# Disciplinary Actions & Sanctions

Violation of the Campus Code of Conduct, or of Rowan-Cabarrus policies, or of North Carolina and federal laws while on campus or while off campus when participating in activities sponsored by Rowan-Cabarrus, subjects violators to appropriate sanctions. The Executive Director of Student Success (or designee) to determine whether the charges are significant or whether they may be dropped or informally resolved will investigate charges that a student has violated behavior standards.

Charges that a student has violated an academic standard will be investigated by the Executive Director of Student Success to determine if the charges are significant, whether the charges will be dropped or informally resolved.

Charges that a community patron has violated the Campus Code of Conduct will be investigated by the Director of Campus Safety and Security (or designee) to determine if the charges are significant, inform the patron and appropriate administrative unit of any restrictions imposed and notify campus security of any additional action to be taken. To report a concerning or worrisome behavior visit [www.rccc.edu/civility/concerning-or-worrisome-behavior/](http://www.rccc.edu/civility/concerning-or-worrisome-behavior/).

### Procedures for Disciplinary Actions:

This section describes the College disciplinary procedures in response to violations of the Campus Code of Conduct. The Executive Director of Student Success (or Designee) is responsible for implementing student disciplinary procedures.

### Disposition of Disciplinary Cases:

The following section outlines the procedure for handling student disciplinary cases in accordance with due process and justice.

**Charges:** Any member of the College community may file charges against any student for violation of College regulations. The individuals making the charge must complete the electronic Rowan-Cabarrus Campus Code of Conduct Violation form, located on the College's website and intranet.

**Investigation and Decision:** Within five (5) business days after the charge is filed, the Executive Director of Student Success, or designee shall complete a preliminary investigation of the charge, and schedule a meeting with the student(s) alleged to be in violation. After meeting with the student(s) to review the alleged infraction(s) one of the following actions will be taken:

- Drop the charge(s)
- Impose a sanction consistent with those listed below
- Refer the student(s) to a college office or community agency for services

**Notifications:** The decision shall be presented in writing to the student within five (5) business days. In instances where the student is unreachable to schedule an appointment or refuses to cooperate, the student receives a certified letter at the student's last known address and a copy via Rowan-Cabarrus email. The letter provides a list of charges, the decision, and instructions governing the appeal process.

### Immediate Interim Suspension:

This procedure can be invoked by any college official for any student who has been involved in conduct that threatens the health or well-being of any member of the college community or disrupts the function or good order of the college or college premises. The college official must advise the student that failure to comply will result in immediate interim suspension. If the student fails to comply, the college official may invoke the interim suspension until disciplinary proceedings are completed. College officials may contact campus security officers to have the student removed. Once interim suspension has been invoked by a college official, a written report must be filed with the Executive Director of Student Success. The report must detail the individual(s) involved and the nature of the infraction with supporting information. It must include other students or employees who observed the incident. The report must be filed immediately, but not more than two (2) working days after the incident. Incidents in the classroom should be reported to the program head and dean of the division by the instructor involved. [www.rccc.edu/civility/concerning-or-worrisome-behavior/](http://www.rccc.edu/civility/concerning-or-worrisome-behavior/)

The Executive Director of Student Success will notify the student in writing of the interim suspension and the reasons for the suspension. The notice will include a description of disciplinary procedures including the time, date and location of any subsequent hearing. The procedural timeline outlined in a subsequent section will be followed by the College to resolve the pending matter.

Interim suspension may result in continued exclusion (beyond the incident date) from class and or other privileges including presence on college property or college-sponsored activities until a final decision has been made concerning the alleged conduct violation.

### Verbal Warning (reprimand)

A verbal communication given to the student or patron by a college agent to cease a behavior or action deemed inappropriate, or possibly a violation of the Campus Code of Conduct. The issuing college official should document the issuing of a verbal warning, including the incident and the student/patron name.

### Written Warning (reprimand)

A written communication that gives official notice to the student/patron regarding the offense noted and that any subsequent offense of the Campus Code of Conduct will carry heavier penalties because of the prior infraction.

### Interim Suspension

Exclusion from class or other privileges or activities as set forth in the notice, until a final decision has been made concerning the alleged violation.

### General Probation

General probation allows the student to remain in courses and on campus, with periodic check-ins and follow up. It allows the student to show the willingness and capacity to observe the Campus Code of Code without further penalty. If a second penalty occurs during the probationary period, further action can be taken. The probationary period can be in effect for no more than two (2) academic terms.

### Restrictive Probation

Loss of good standing and a matter of official record (transcript notation) denoted by this sanction. Restrictive probation limits the student /patron's activity on the campus and within the College community. The student cannot be initiated into any local or national organization, receive any college award or recognitions, occupy a position of leadership, or travel with any college student organization. Further, the College may restrict the student /patron's access to campus or use of campus services and facilities. Restrictive probation is for a period of not less than two (2) academic terms. Any violation of Restrictive Probation orders may result in immediate suspension.

### Restitution

Paying for damage, misuse, destruction, or loss of property belonging to the College, college personnel, student, or contract agent for the College.

### Loss of Academic Credit or Grade

Students in violation of the academic integrity section may be sanctioned by loss of academic credit, withholding grade reports, diplomas, degrees, or the opportunity to register or participate in graduation ceremonies.

When financial obligations to the College are not met, grade reports and transcripts may be withheld.

### Suspension

Exclusion from class(es) or all other privileges or activities of the College for a specified period and is reserved for offenses that warrant discipline more severe than probation or for repeated misconduct. Students receive this sanction must get specific written permission from the Vice President of Student Success before returning to campus.

### Expulsion

Exclusion from class(es) or all other privileges or activities of the College for a specified period of time. Students who receive this sanction must get specific written permission from the Executive Director of Student Success before returning to campus.

### Appeal of Disciplinary Sanctions

The disciplinary decision of the Executive Director of Student Success must be presented to the student in writing within five (5) working days after the charge is investigated. If a disciplinary sanction is imposed, the student may appeal the decision as follows:

An appeal of a suspension must be submitted in writing within five (5) working days to the Vice President of Student Success. The appeal must include the student's reason for appeal, mitigating circumstances or evidence that needs to be considered. The Vice President of Student Success will render a decision and will notify the student of the decision within five (5) working days of receipt of the appeal.

An appeal of an expulsion must be submitted to the President within five (5) working days of the disciplinary sanction of expulsion. The President may solicit evidence and information regarding the student case and take any other steps deemed appropriate before rendering a decision as soon as possible but not more than ten (10) days from the date received.

In the event that a suspension or expulsion is issued, campus security will be notified.

Visit [www.rccc.edu/civility/code-of-conduct/](http://www.rccc.edu/civility/code-of-conduct/) for the most current Code of Conduct information.

### Appeal of Financial Obligations to the College

Students who want to appeal disciplinary action related to violation of financial indebtedness to the College must do so through the Chief Financial Officer of the College (or designee) until the matter is submitted to local and state legal authorities.

## Student Grievances

Any student may request a review of any college decision or action alleged to be discriminatory or have a negative effect on the student's enrollment status at Rowan-Cabarrus Community College. Students must follow the procedure noted below and may request consultation assistance from student services. A grievance must be presented within 30 days after the action or decision being in question. Processing at each step cannot exceed 30 working days; however, the time may be extended by agreement of both parties or by extenuating circumstances as decided by the administrator to whom the grievance is presented. If the administrator at each step does not meet processing time limitations, the grievant may then request higher administrative assistance in obtaining requested relief. If the grievant does not meet the stated time limitations, the process will be terminated and such grievance cannot be resubmitted.

The student shall first informally discuss the matter in question with the college employee most directly involved unless the issue is a claim of discriminatory harassment. In that case, the student may move directly to the employee's immediate administrator or student services representative.

If the student is unable to resolve the matter in question through discussion with the college employee directly involved, the student may file a formal grievance form with the employee's immediate administrator. All such grievances shall be in writing and state the basic facts in the case. [www.rccc.edu/civility/student-grievance/](http://www.rccc.edu/civility/student-grievance/)

If the matter is not resolved, the formal appeal may be processed through the employee's supervising administrators in succession until a satisfactory resolution is obtained or until the appeal reaches the appropriate vice president. The Vice President of Student Success decision will be final except in the case of expulsion from the college that requires a final ruling by the president.

A student may, at any stage of the process, consult with the Executive Director of Student Success to obtain advice regarding the grievance procedure.

Visit [www.rccc.edu/civility](http://www.rccc.edu/civility) for the most current information

## Campus Safety Information

### Campus Communication & Safety Information

The following sections address the college procedures related to communication, inclement weather, safety and security

### Campus Identification Cards (IDs)

Campus ID cards are multifunctional cards providing access to Library services and printing in addition to being a key component of campus safety. College students and employees are required to have campus identification cards and be able to produce these on demand of any college security/safety officer or any college administrator. College IDs are produced in the College's Navigation Station during the semester.

### College Communication Tools

Rowan-Cabarrus has several methods of communicating with students and employees: college website, college email accounts, Navigate, Campus Connect messaging which includes text, email or phone message capabilities. Students and employees are responsible for providing current contact information (including emergency contacts) to ensure that correct phone and mailing addresses are available to the College.

Rowan-Cabarrus email accounts are assigned to students and employees. The college email account is used for all written communication between service offices and students and employees, including notices of special events, registration, end of semester activities, and updates. College email addresses are assigned once the college application has been processed. For more information about your college email account, visit the Information Services website: [www.rccc.edu/its/is-answers-help-desk/](http://www.rccc.edu/its/is-answers-help-desk/).

Campus Connect messaging is a multi-functional system used by the college administration to notify students of college closing, safety concerns, and other time sensitive information. The phone numbers and emails used by this system are provided by the student or employee on the enrollment application or employment application. Students and employees are responsible for keeping their mailing address, phone number(s) and alternative email and other contact information current. Updates must be submitted to student services.

Campus Speaker Systems are available on South Campus and CBTC. These systems are used to make announcements related to drills, security concerns and safety issues.



Navigate and WebAdvisor are multifunctional tools for students and employees. Students use Navigate as a registration tool. Students may search course offerings, register for class sections, drop/add classes sections, view/print your current schedule, view grades at the end of each semester, print unofficial transcript and view financial accounts with the College. Employees have WebAdvisor accounts to update their information.

## Safety and Security

The campus safety and security department consists of professionally trained members of the respective county or municipal law enforcement or security agency. Security staff safeguards and serves our campus community. Security is responsible for the flow of traffic on campus, building security and enforcement of traffic and parking regulations. Uniformed law enforcement officers have the authority to arrest.

Emergency instruction documents are available in every classroom, conference room, office and student use space (i.e., Library, Student Center). These provide basic information related to action students, faculty and staff could take during a campus emergency.

## Campus Emergency Responders

The Campus First Response Team is responsible for responding to all emergencies on campus. This group consists of the Campus Emergency Operations Administrator, Campus Building Safety Coordinators, Campus Security Officers and Campus Facilities Maintenance Staff. The team will manage all emergencies until public first responders arrive.

## Reporting Emergencies Occurring on Campus

Call 9-1-1 for life threatening emergencies and 704-216-7600 for non-life threatening urgent matters.

Emergency call stations are located on each floor in every building at all campus locations, as well as some parking lots and on some sidewalk areas on each campus. Emergency call stations are for the reporting of life-threatening situations, severe illnesses or injuries. These boxes are operational 24/7. College security and emergency response staff will respond to the emergency call station location and locate the person(s) who activate the call box.

Security personnel are on campus to serve and protect employees and students. We urge you to report any suspicious persons or anything out of the ordinary in the buildings or parking lots to a security officer or the switchboard. Upon request, security personnel will escort you to your vehicle for added protection.

[www.rccc.edu/safety](http://www.rccc.edu/safety)

Monthly crime logs are provided by Campus Safety and Security and posted on the Rowan-Cabarrus website: [www.rccc.edu/safety/safety-security-crime-log](http://www.rccc.edu/safety/safety-security-crime-log).

## Campus Sex Crimes Prevention Disclosure:

The Campus Sex Crimes Prevention Act provides that offenders must register the name of any higher education institution where they enroll as a student or commence employment.

Information regarding individuals on the registered sex offenders' list can be obtained from the local sheriff's office.

Rowan County Sheriff's Office:  
[www.rowancountync.gov/485/Sheriffs-Office](http://www.rowancountync.gov/485/Sheriffs-Office)

Cabarrus County Sheriff's Office:  
[www.cabarruslaw.us/](http://www.cabarruslaw.us/)

North Carolina Public Safety: [www.ncdps.gov](http://www.ncdps.gov)

This website provides access to search offender information about the offense committed; the county the offense was committed, the date of admission to a correctional facility, and the offender's status and release date.



# Programs of Study





# Programs

2020-2021

Program details listed below.

[All Programs](#) / Accounting and Finance

## Accounting and Finance (25800) CIP 52.0304

🕒 Last updated on Sept. 24, 2019, 10:16 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

<a href="#">Accounting and Finance Associate in Applied Science Degree A25800</a> <a href="#">64-65 SHC total</a>	»
<a href="#">Accounting and Finance CPA Exam Diploma D25800FT</a> <a href="#">40 SHC total</a>	»
<a href="#">Accounting and Finance Diploma D25800</a> <a href="#">39 SHC total</a>	»
<a href="#">Accounting and Finance Government Certificate C25800GT</a> <a href="#">17 SHC total</a>	»
<a href="#">Accounting and Finance Tax Certificate C25800XT</a> <a href="#">17 SHC total</a>	»
<a href="#">Accounting and Finance Services Certificate C25800FS</a> <a href="#">16 SHC total</a>	»
<a href="#">Accounting and Finance Insurance Certificate C25800IN</a> <a href="#">15 SHC total</a>	»

### Additional Information:

**ACADEMIC PLANS:** [A25800 AAS](#), [D25800FT CPA Exam Diploma](#), [D25800 Diploma](#), [C25800GT Government Certificate](#), [C25800IN Insurance Certificate](#), [C25800FS Services Certificate](#), [C25800XT Tax Certificate](#)

### Notes:

For additional information regarding this program, contact the chair, Garland Fulp, [garland.fulp@rccc.edu](mailto:garland.fulp@rccc.edu).

### Faculty Mentors:

Chad Nichols

*Faculty*

✉ [chad.nichols@rccc.edu](mailto:chad.nichols@rccc.edu)

☎ [704-216-3836](tel:704-216-3836)

📍 North

Martha Cranford

*Faculty*

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📍 North

Nasrin Nazemzadeh

*Faculty*

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📍 South

Pamela Vest

*Faculty*

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☎ [704-216-3793](tel:704-216-3793)

📍 South

# Awards

2020-2021

Award details listed below.

[II Progr](#) / [Accounting and Finance](#) / A25800

## Accounting and Finance Associate in Applied Science Degree A25800

### Accounting and Finance (25800) CIP 52.0304




🕒 Last updated on Jan. 10, 2020, 1:21 p.m.

The following is a suggested degree map for completing this degree in four semesters. Some student's degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">ACC-120 Principles of Financial Accounting</a>	<u>4.00</u>
 <a href="#">BUS-115 Business Law I</a>	<u>3.00</u>
 <a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>





Take one of the following math courses.

<a href="#">MAT-143 Quantitative Literacy</a>	<u>3.00</u>
<a href="#">MAT-152 Statistical Methods I</a>	<u>4.00</u>
<a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>

**Credits: 16-17**

### First Year Spring:

Take the following courses.

 <a href="#">ACC-121 Principles of Managerial Accounting</a>	<u>4.00</u>
 <a href="#">ACC-129 Individual Income Taxes</a>	<u>3.00</u>
 <a href="#">ACC-150 Accounting Software Applications</a>	<u>2.00</u>
 <a href="#">ACC-220 Intermediate Accounting I</a>	<u>4.00</u>

Take one of the following communication courses.

<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>
<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>

**Credits: 16**



## Second Year Fall:

Take the following courses.

<u>ACC-221 Intermediate Accounting II</u>	<u>4.00</u>
<u>ACC-225 Cost Accounting</u>	<u>3.00</u>

Take one of the following finance courses.

<input checked="" type="checkbox"/> <u>BUS-125 Personal Finance</u>	<u>3.00</u>
<input checked="" type="checkbox"/> <u>BUS-225 Business Finance</u>	<u>3.00</u>

Take one of the following social/behavioral sciences courses. The ECO course taken to satisfy the Economics core requirement cannot be used to satisfy the social/behavioral sciences requirement.

<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 16**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <u>ACC-149 Intro to ACC Spreadsheets</u>	<u>2.00</u>
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Take one of the following economics courses.

<input checked="" type="checkbox"/> <u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<input checked="" type="checkbox"/> <u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>

<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

Take 8 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

## MAJOR ELECTIVES Course List:

Take 11 semester hours credit (SHC) from the following courses. This may include up to 3 SHC from the WBL course/combination of courses.

<u>ACC-132 NC Business Taxes</u>	<u>2.00</u>
<u>ACC-140 Payroll Accounting</u>	<u>2.00</u>
<u>ACC-175 Hotel and Restaurant Accounting</u>	<u>4.00</u>
<u>ACC-215 Ethics in Accounting</u>	<u>3.00</u>
<u>ACC-240 Gov &amp; Not-For-Profit Acct</u>	<u>3.00</u>
<u>ACC-250 Advanced Accounting</u>	<u>3.00</u>
<u>ACC-268 Information Systems &amp; Internal Controls</u>	<u>3.00</u>
<u>ACC-269 Auditing &amp; Assurance Services</u>	<u>3.00</u>
<u>BAF-143 Financial Planning</u>	<u>3.00</u>
<u>BUS-125 Personal Finance</u>	<u>3.00</u>
<u>BUS-137 Principles of Management</u>	<u>3.00</u>
<u>BUS-147 Business Insurance</u>	<u>3.00</u>
<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-225 Business Finance</u>	<u>3.00</u>
<u>BUS-230 Small Business Management</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>
<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>DBA-110 Database Concepts</u>	<u>3.00</u>
<u>ECM-210 Introduction to E-Commerce</u>	<u>3.00</u>
<u>INS-121 Life Insurance</u>	<u>3.00</u>
<u>INS-122 Accident and Health Insurance</u>	<u>3.00</u>
<u>INS-125 Risk Management</u>	<u>3.00</u>
<u>INS-127 Claims Adjusting</u>	<u>3.00</u>
<u>INS-128 Med Sup/Long-Term/Estate Plan</u>	<u>3.00</u>
<u>INT-110 International Business</u>	<u>3.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WBL-122 Work-Based Learning II</u>	<u>2.00</u>



WBL-131 Work-Based Learning III

1.00

WBL-132 Work-Based Learning III

2.00

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# Total Credits To Complete

**64-65**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Accounting and Finance](#) / D25800FT

## Accounting and Finance CPA Exam Diploma D25800FT

Accounting and Finance (25800) CIP 52.0304



🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this diploma in three terms. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:


Take the following courses.

 <a href="#">ACC-120 Principles of Financial Accounting</a>	<u>4.00</u>
 <a href="#">BUS-115 Business Law I</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

**Credits: 10**

### First Year Spring:

Take the following courses.

 <a href="#">ACC-121 Principles of Managerial Accounting</a>	<u>4.00</u>
<a href="#">ACC-129 Individual Income Taxes</a>	<u>3.00</u>
<a href="#">ACC-220 Intermediate Accounting I</a>	<u>4.00</u>
<a href="#">ACC-269 Auditing &amp; Assurance Services</a>	<u>3.00</u>

**Credits: 14**

Note:

ACC 220 will be taught in the first 8-weeks and ACC 269 will be taught in the second 8-weeks.

### Second Year Fall:

Take the following courses.

<a href="#">ACC-221 Intermediate Accounting II</a>	<u>4.00</u>
<a href="#">ACC-225 Cost Accounting</a>	<u>3.00</u>
<a href="#">ACC-240 Gov &amp; Not-For-Profit Acct</a>	<u>3.00</u>
<a href="#">ACC-250 Advanced Accounting</a>	<u>3.00</u>

Take one of the following social/behavioral sciences courses.

<a href="#">ECO-251 Principles of Microeconomics</a>	<u>3.00</u>
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<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>

**Credits: 16**

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# Total Credits To Complete

**40**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Accounting and Finance](#) / D25800

## Accounting and Finance Diploma D25800

Accounting and Finance (25800) CIP 52.0304




🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this diploma in three terms. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:





Take the following courses.

 <a href="#">ACC-120 Principles of Financial Accounting</a>	<u>4.00</u>
 <a href="#">BUS-115 Business Law I</a>	<u>3.00</u>
 <a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">BUS-137 Principles of Management</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

**Credits: 16**

### First Year Spring:

Take the following courses.

 <a href="#">ACC-121 Principles of Managerial Accounting</a>	<u>4.00</u>
 <a href="#">ACC-129 Individual Income Taxes</a>	<u>3.00</u>
 <a href="#">ACC-150 Accounting Software Applications</a>	<u>2.00</u>
 <a href="#">ACC-220 Intermediate Accounting I</a>	<u>4.00</u>
<a href="#">ACC-140 Payroll Accounting</a>	<u>2.00</u>
<a href="#">ACC-149 Intro to ACC Spreadsheets</a>	<u>2.00</u>

**Credits: 17**

### Second Year Fall:

Take one of the following communication courses.

<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>
<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>

Take three semester hour credits from the following social/behavioral sciences courses.

<a href="#">ECO-251 Principles of Microeconomics</a>	<u>3.00</u>
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ECO-252 Principles of Macroeconomics 3.00

POL-120 American Government 3.00

PSY-150 General Psychology 3.00

SOC-210 Introduction to Sociology 3.00

**Credits: 6**

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# Total Credits To Complete

**39**

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# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Accounting and Finance](#) / C25800GT

## Accounting and Finance Government Certificate C25800GT

Accounting and Finance (25800) CIP 52.0304

 Last updated on Feb. 2, 2020, 10:31 a.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">ACC-120 Principles of Financial Accounting</a>	<a href="#">4.00</a>
<a href="#">ACC-121 Principles of Managerial Accounting</a>	<a href="#">4.00</a>
<a href="#">ACC-132 NC Business Taxes</a>	<a href="#">2.00</a>

**Credits: 10**
**Note:**

ACC 120 will be taught during the 1st 8 weeks and ACC 121 will be taught during the 2nd 8 weeks.

### First Year Spring:

Take the following courses.

<a href="#">ACC-220 Intermediate Accounting I</a>	<a href="#">4.00</a>
<a href="#">ACC-240 Gov &amp; Not-For-Profit Acct</a>	<a href="#">3.00</a>

**Credits: 7**
**Note:**

ACC-240 will be taught during the 2nd 8 weeks.

# Total Credits To Complete

17



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Accounting and Finance](#) / C25800XT

## Accounting and Finance Tax Certificate C25800XT

Accounting and Finance (25800) CIP 52.0304

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>ACC-120 Principles of Financial Accounting</u>	<u>4.00</u>
<u>ACC-129 Individual Income Taxes</u>	<u>3.00</u>
<u>ACC-132 NC Business Taxes</u>	<u>2.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<u>ACC-121 Principles of Managerial Accounting</u>	<u>4.00</u>
<u>ACC-140 Payroll Accounting</u>	<u>2.00</u>
<u>ACC-150 Accounting Software Applications</u>	<u>2.00</u>

**Credits: 8**

# Total Credits To Complete

17

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Accounting and Finance](#) / C25800FS

## Accounting and Finance Services Certificate C25800FS

Accounting and Finance (25800) CIP 52.0304

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>ACC-120 Principles of Financial Accounting</u>	<u>4.00</u>
<u>BUS-125 Personal Finance</u>	<u>3.00</u>

**Credits: 7**

### First Year Spring:

Take the following courses.

<u>BAF-143 Financial Planning</u>	<u>3.00</u>
<u>BUS-147 Business Insurance</u>	<u>3.00</u>
<u>BUS-225 Business Finance</u>	<u>3.00</u>

**Credits: 9**

# Total Credits To Complete

**16**

# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Accounting and Finance](#) / C25800IN

## Accounting and Finance Insurance Certificate C25800IN

Accounting and Finance (25800) CIP 52.0304

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">INS-121 Life Insurance</a>	<a href="#">3.00</a>
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<a href="#">INS-122 Accident and Health Insurance</a>	<a href="#">3.00</a>
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**Credits: 6**

### First Year Spring:

Take the following courses.

<a href="#">INS-125 Risk Management</a>	<a href="#">3.00</a>
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<a href="#">INS-127 Claims Adjusting</a>	<a href="#">3.00</a>
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<a href="#">INS-128 Med Sup/Long-Term/Estate Plan</a>	<a href="#">3.00</a>
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**Credits: 9**

## Total Credits To Complete

15

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Advertising and Graphic Design

## Advertising and Graphic Design

(30100) CIP 50.0402

🕒 Last updated on Sept. 24, 2019, 10:18 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Advertising and Graphic Design Associate in Applied Science Degree A30100](#) »

[64-66 SHC total](#)

[Advertising and Graphic Design Certificate C30100](#) »

[13 SHC total](#)

[CCPP Advertising and Graphic Design Certificate C30100PB](#) »

[13 SHC total](#)

### Additional Information:

The Associate in Fine Arts in Visual Arts degree program and the Advertising and Graphic Design degree program share facilities and equipment. Most of the Graphic Design (GRD) courses are taught in the iMac Digital Studio using the osX platform. The Adobe Creative Cloud Design Suite is also used.

Jenn Selby serves as the Director of Philanthropy, Transfer, and the Arts with Jonathan Hoffman as the Chair for both the Advertising and Graphic Design Associate in Applied Science degree program and the Associate in Fine Arts in Visual Arts transfer degree program. Students may contact the chair Jonathan Hoffman or the Lead Faculty for Advertising and Graphic Design, Aaron Tallman, for additional information regarding this program.

[Fine and Applied Arts Programs Website](#)

[Associate in Fine Arts in Visual Arts degree](#)

**ACADEMIC PLANS:** [A30100 AAS](#), [C30100 Certificate](#)

### Notes:

For additional information regarding this program, contact the Chair, [Jenn Selby](#).

### Faculty Mentors:

Jonathan Hoffman

Chair

Jenn Selby

Director



✉ [jonathan.hoffman@rccc.edu](mailto:jonathan.hoffman@rccc.edu)

📞 [704-216-3819](tel:704-216-3819)

🏠 North

✉ [jenn.selby@rccc.edu](mailto:jenn.selby@rccc.edu)

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🏠 North

Ryland Perry

*Lead Faculty*

✉ [ryland.perry@rccc.edu](mailto:ryland.perry@rccc.edu)

📞 N/A

🏠 N/A

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Advertising and Graphic Design](#) / A30100

## Advertising and Graphic Design Associate in Applied Science Degree A30100

Advertising and Graphic Design (30100) CIP 50.0402

🕒 Last updated on April 21, 2020, 2:16 p.m.

### Course Requirements:

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time, or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">ART-131 Drawing I</a>	<a href="#">3.00</a>
 <a href="#">GRD-110 Typography I</a>	<a href="#">3.00</a>
 <a href="#">GRD-151 Computer Design Basics</a>	<a href="#">3.00</a>

Take one of the following design courses.

<a href="#">ART-121 Two-Dimensional Design</a>	<a href="#">3.00</a>
<a href="#">GRD-141 Graphic Design I</a>	<a href="#">4.00</a>

Take one of the following humanities/fine arts courses. ART-111, ART-114, or ART-115 are recommended.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
<a href="#">DRA-111 Theatre Appreciation</a>	<a href="#">3.00</a>
<a href="#">ENG-231 American Literature I</a>	<a href="#">3.00</a>
<a href="#">ENG-241 British Literature I</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>

**Credits: 15-16**

### First Year Spring:

Take the following courses.

✓ <a href="#">GRD-131 Illustration I</a>	<a href="#">2.00</a>
✓ <a href="#">GRD-142 Graphic Design II</a>	<a href="#">4.00</a>
✓ <a href="#">GRD-152 Computer Design Tech I</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

Take one of the following Natural Sciences/Math courses. If AST-151 is selected, AST-151A must also be taken. If CHM-131 is selected, CHM-131A must also be taken. Beginning Fall 2018, CHM 151 will have a co-requisite of MAT 171. If you select CHM 151 as your Natural Sciences/Math course, you must also have credit for or take concurrently MAT 171.

<a href="#">AST-151 General Astronomy I</a>	<a href="#">3.00</a>
<a href="#">AST-151A General Astronomy I Lab</a>	<a href="#">1.00</a>
<a href="#">BIO-110 Principles of Biology</a>	<a href="#">4.00</a>
<a href="#">BIO-111 General Biology I</a>	<a href="#">4.00</a>
<a href="#">CHM-131 Introduction to Chemistry</a>	<a href="#">3.00</a>
<a href="#">CHM-131A Introduction to Chemistry Lab</a>	<a href="#">1.00</a>
<a href="#">CHM-151 General Chemistry I</a>	<a href="#">4.00</a>
<a href="#">MAT-143 Quantitative Literacy</a>	<a href="#">3.00</a>
<a href="#">MAT-152 Statistical Methods I</a>	<a href="#">4.00</a>
<a href="#">MAT-171 Precalculus Algebra</a>	<a href="#">4.00</a>
<a href="#">PHY-151 College Physics I</a>	<a href="#">4.00</a>

**Credits: 15-16**

## First Year Summer:

Take one of the following social/behavioral sciences courses.

<a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
<a href="#">ECO-252 Principles of Macroeconomics</a>	<a href="#">3.00</a>
<a href="#">HIS-111 World Civilizations I</a>	<a href="#">3.00</a>
<a href="#">HIS-112 World Civilizations II</a>	<a href="#">3.00</a>
<a href="#">HIS-131 American History I</a>	<a href="#">3.00</a>
<a href="#">HIS-132 American History II</a>	<a href="#">3.00</a>
<a href="#">POL-120 American Government</a>	<a href="#">3.00</a>
<a href="#">PSY-150 General Psychology</a>	<a href="#">3.00</a>
<a href="#">SOC-210 Introduction to Sociology</a>	<a href="#">3.00</a>

Take one of the following communications courses.

<a href="#">COM-140 Introduction to Intercultural Communication</a>	<a href="#">3.00</a>
<a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>
<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>

**Credits: 6**

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## Second Year Fall:

Take the following courses.

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[GRD-241 Graphic Design III](#) 4.00

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[GRD-265 Digital Print Production](#) 3.00

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Take 8 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

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## Second Year Spring:

Take the following course.

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[GRD-280 Portfolio Design](#) 4.00

---

Take 9 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 13**

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## MAJOR ELECTIVES Course List:

Select 17 semester hour credits (SHC) from the following courses. BUS, CSC, and MKT courses are limited to 9 SHC for each prefix. WBL courses are limited to 3 SHC.

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[ART-111 Art Appreciation](#) 3.00

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[ART-114 Art History Survey I](#) 3.00

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[ART-115 Art History Survey II](#) 3.00

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[ART-117 Non-Western Art History](#) 3.00

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[ART-122 Three-Dimensional Design](#) 3.00

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[ART-132 Drawing II](#) 3.00

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[ART-135 Figure Drawing I](#) 3.00

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[ART-171 Digital Design I](#) 3.00

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[ART-212 Gallery Assistantship I](#) 3.00

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[ART-214 Portfolio and Resume](#) 1.00

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[ART-215 Visual Art Portfolio](#) 3.00

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[ART-231 Printmaking I](#) 3.00

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[ART-232 Printmaking II](#) 3.00

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[ART-235 Figure Drawing II](#) 3.00

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[ART-240 Painting I](#) 3.00

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[ART-241 Painting II](#) 3.00

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[ART-244 Watercolor](#) 3.00

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<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-264 Digital Photography I</u>	<u>3.00</u>
<u>ART-265 Digital Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-267 Videography II</u>	<u>3.00</u>
<u>ART-275 Introduction to Graphic Design</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-282 Sculpture II</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-284 Ceramics II</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>BUS-110 Introduction to Business</u>	<u>3.00</u>
<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-121 Business Math</u>	<u>3.00</u>
<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-230 Small Business Management</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>
<u>BUS-253 Leadership and Management Skills</u>	<u>3.00</u>
<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>CIS-115 Intro to Programming &amp; Logic</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>
<u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>CSC-153 C# Programming</u>	<u>3.00</u>
<u>CSC-251 Advanced JAVA Programming</u>	<u>3.00</u>
<u>CSC-253 Advanced C# Programming</u>	<u>3.00</u>
<u>GRD-113 History of Graphic Design</u>	<u>3.00</u>
<u>GRD-117 Design Career Exploration</u>	<u>2.00</u>
<u>GRD-132 Illustration II</u>	<u>2.00</u>
<u>GRD-170 Exhibit Design</u>	<u>3.00</u>
<u>GRD-281 Design of Advertising</u>	<u>2.00</u>
<u>MKT-120 Principles of Marketing</u>	<u>3.00</u>
<u>MKT-123 Fundamentals of Selling</u>	<u>3.00</u>
<u>MKT-220 Advertising and Sales Promotion</u>	<u>3.00</u>
<u>MKT-223 Customer Service</u>	<u>3.00</u>
<u>MKT-225 Marketing Research</u>	<u>3.00</u>

<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WBL-122 Work-Based Learning II</u>	<u>2.00</u>
<u>WBL-131 Work-Based Learning III</u>	<u>1.00</u>
<u>WEB-110 Internet/Web Fundamentals</u>	<u>3.00</u>
<u>WEB-187 Programming for Mobile Devices</u>	<u>3.00</u>

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Total Credits To Complete

**64-66**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Advertising and Graphic Design](#) / C30100

## Advertising and Graphic Design Certificate C30100

Advertising and Graphic Design (30100) CIP 50.0402

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in one semester. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### Fall Semester:

Take the following courses.

<a href="#">ART-131 Drawing I</a>	<a href="#">3.00</a>
<a href="#">GRD-110 Typography I</a>	<a href="#">3.00</a>
<a href="#">GRD-141 Graphic Design I</a>	<a href="#">4.00</a>
<a href="#">GRD-151 Computer Design Basics</a>	<a href="#">3.00</a>

**Credits: 13**

# Total Credits To Complete

**13**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Advertising and Graphic Design](#) / C30100PB

## CCPP Advertising and Graphic Design Certificate C30100PB

Advertising and Graphic Design (30100) CIP 50.0402

🕒 Last updated on June 28, 2019, 10:59 a.m.

## Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

### Take the following courses.:

<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>GRD-110 Typography I</u>	<u>3.00</u>
<u>GRD-141 Graphic Design I</u>	<u>4.00</u>
<u>GRD-151 Computer Design Basics</u>	<u>3.00</u>

**Credits: 13**

# Total Credits To Complete

**13**



# Programs

2020-2021

Program details listed below.

[All Programs](#) / Air Conditioning, Heating & Refrigeration Technology

## Air Conditioning, Heating & Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on Sept. 24, 2019, 10:28 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology Associate in Applied Science Degree A35100</a> <a href="#">67 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology Diploma D35100</a> <a href="#">42 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology Comfort Cooling Certificate C35100CC</a> <a href="#">18 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology Commercial Certificate C35100CO</a> <a href="#">18 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology Heat Pump Certificate C35100HP</a> <a href="#">18 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology Heating Certificate C35100HC</a> <a href="#">17 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology Refrigeration Certificate C35100RF</a> <a href="#">17 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology MTC II Certificate C35100MI</a> <a href="#">16 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology HVAC Design Certificate C35100HD</a> <a href="#">16 SHC total</a>	»
<a href="#">CCPP Air Conditioning, Heating &amp; Refrigeration Technology Intermediate Certificate C35100PI</a> <a href="#">16 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology MTC I Certificate C35100MB</a> <a href="#">15 SHC total</a>	»
<a href="#">Air Conditioning, Heating &amp; Refrigeration Technology Basic Certificate C35100BA</a> <a href="#">15 SHC total</a>	»
<a href="#">CCPP Air Conditioning, Heating &amp; Refrigeration Technology Basic Certificate C35100PB</a> <a href="#">14 SHC total</a>	»

## Additional Information:

Please view the [AHR Video](#).

### ACADEMIC PLANS:

[A35100 AAS](#), [D35100 Diploma](#), [C35100CO Commercial Certificate](#), [C35100CC Comfort Cooling Certificate](#), [C35100HP Heat Pump Certificate](#), [C35100HC Heating Certificate](#), [C35100RF Refrigeration Certificate](#), [C35100HD HVAC Design Certificate](#), [C35100BA Basic Certificate](#), [C35100MB MTC I Certificate](#), [C35100MI MTC II Certificate](#)

## Notes:

For additional information regarding this program, contact the chair, Joe Christie, [joe.christie@rccc.edu](mailto:joe.christie@rccc.edu).

## Faculty Mentors:

<p>Joe Christie <i>Chair</i></p> <hr/> <p>✉ <a href="mailto:joe.christie@rccc.edu">joe.christie@rccc.edu</a></p> <p>📞 <a href="tel:704-216-3908">704-216-3908</a></p> <p>🏢 CBTC</p>	<p>Fred Loving <i>Faculty</i></p> <hr/> <p>✉ <a href="mailto:fred.lovig@rccc.edu">fred.lovig@rccc.edu</a></p> <p>📞 <a href="tel:704-216-3912">704-216-3912</a></p> <p>🏢 CBTC</p>
<p>Jon Crockett <i>Faculty</i></p> <hr/> <p>✉ <a href="mailto:jon.crockett@rccc.edu">jon.crockett@rccc.edu</a></p> <p>📞 <a href="tel:704-216-3909">704-216-3909</a></p> <p>🏢 CBTC</p>	<p>Vixiene Keovilay <i>Faculty</i></p> <hr/> <p>✉ <a href="mailto:vixiene.keovilay@rccc.edu">vixiene.keovilay@rccc.edu</a></p> <p>📞 <a href="tel:704-216-7128">704-216-7128</a></p> <p>🏢 CBTC</p>
<p>Larry Newcomb <i>Instructional Support</i></p> <hr/> <p>✉ <a href="mailto:larry.newcomb@rccc.edu">larry.newcomb@rccc.edu</a></p> <p>📞 <a href="tel:704-216-3857">704-216-3857</a></p> <p>🏢 CBTC</p>	

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / A35100

## Air Conditioning, Heating & Refrigeration Technology Associate in Applied Science Degree A35100

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201




🕒 Last updated on Jan. 13, 2020, 8:50 a.m.

The following is a suggested degree map for completing this degree in six semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time, or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">AHR-110 Introduction to Refrigeration</a>	5.00
 <a href="#">AHR-112 Heating Technology</a>	4.00
 <a href="#">ELC-111 Introduction to Electricity</a>	3.00
<a href="#">CST-131 OSHA/Safety/Certification</a>	3.00

**Credits: 15**

### First Year Spring:

Take the following courses.

 <a href="#">AHR-114 Heat Pump Technology</a>	4.00
 <a href="#">AHR-130 HVAC Controls</a>	3.00
<a href="#">AHR-151 HVAC Duct Systems I</a>	2.00
<a href="#">AHR-160 Refrigerant Certification</a>	1.00
<a href="#">EGR-125 Appl Software for Tech</a>	2.00

**Credits: 12**

### First Year Summer:

Take the following courses.

 <a href="#">AHR-113 Comfort Cooling</a>	4.00
 <a href="#">AHR-211 Residential System Design</a>	3.00

**Credits: 7**

### Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">AHR-212 Advanced Comfort Systems</a>	<u>4.00</u>
<a href="#">AHR-225 Commercial System Design</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

Take one of the following natural sciences/mathematics courses.

<a href="#">MAT-110 Mathematical Measurement and Literacy</a>	<u>3.00</u>
<a href="#">PHY-110 Conceptual Physics</a>	<u>3.00</u>

**Credits: 13**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">AHR-213 HVACR Building Code</a>	<u>2.00</u>
<a href="#">AHR-215 Commercial HVAC Controls</a>	<u>2.00</u>
<a href="#">AHR-245 Chiller Systems</a>	<u>2.00</u>

Take one of the following communication courses.

<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<u>3.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 12**

## Second Year Summer:

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<u>3.00</u>
<a href="#">ART-114 Art History Survey I</a>	<u>3.00</u>
<a href="#">ART-115 Art History Survey II</a>	<u>3.00</u>
<a href="#">ART-121 Two-Dimensional Design</a>	<u>3.00</u>
<a href="#">ART-131 Drawing I</a>	<u>3.00</u>
<a href="#">ART-132 Drawing II</a>	<u>3.00</u>
<a href="#">ART-240 Painting I</a>	<u>3.00</u>
<a href="#">ART-241 Painting II</a>	<u>3.00</u>
<a href="#">ART-244 Watercolor</a>	<u>3.00</u>
<a href="#">ART-261 Photography I</a>	<u>3.00</u>
<a href="#">ART-262 Photography II</a>	<u>3.00</u>
<a href="#">ART-266 Videography I</a>	<u>3.00</u>



<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<u>ANT-210 General Anthropology</u>	<u>3.00</u>
<u>ANT-220 Cultural Anthropology</u>	<u>3.00</u>
<u>ANT-230 Physical Anthropology</u>	<u>3.00</u>
<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology</u>	<u>3.00</u>

<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>
<u>PSY-243 Child Psychology.</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology.</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality.</u>	<u>3.00</u>
<u>PSY-275 Health Psychology.</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology.</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family.</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>

<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

Take 2 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 8**

## MAJOR ELECTIVES Course List:

Select 5 semester hour credits (SHC) from the following courses. This may include up to 5 SHC from WBL course/combination of courses.

<u>AHR-115 Refrigeration Systems</u>	<u>2.00</u>
<u>AHR-120 HVACR Maintenance</u>	<u>2.00</u>
<u>AHR-152 HVAC Duct Systems II</u>	<u>2.00</u>
<u>AHR-235 Refrigeration Design</u>	<u>3.00</u>
<u>AHR-240 Hydronic Heating</u>	<u>2.00</u>
<u>AHR-255 Indoor Air Quality</u>	<u>2.00</u>
<u>AHR-263 Energy Management</u>	<u>2.00</u>
<u>BPR-111 Print Reading</u>	<u>2.00</u>
<u>BPR-121 Blueprint Reading-Mechanical</u>	<u>2.00</u>
<u>BPR-130 Print Reading-Construction</u>	<u>3.00</u>
<u>BUS-110 Introduction to Business</u>	<u>3.00</u>
<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-121 Business Math</u>	<u>3.00</u>
<u>BUS-125 Personal Finance</u>	<u>3.00</u>
<u>BUS-137 Principles of Management</u>	<u>3.00</u>
<u>BUS-153 Human Resource Management</u>	<u>3.00</u>
<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-230 Small Business Management</u>	<u>3.00</u>
<u>BUS-234 Training and Development</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>
<u>BUS-253 Leadership and Management Skills</u>	<u>3.00</u>
<u>BUS-256 Recruiting, Selection, &amp; Personnel Planning</u>	<u>3.00</u>
<u>BUS-258 Compensation and Benefits</u>	<u>3.00</u>
<u>BUS-259 HRM Applications</u>	<u>3.00</u>
<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>CMT-120 Codes and Inspections</u>	<u>3.00</u>

<u>CMT-210</u>	<u>3.00</u>
<u>CMT-212 Total Safety Performance</u>	<u>3.00</u>
<u>CMT-214 Planning and Scheduling</u>	<u>3.00</u>
<u>CMT-216 Costs and Productivity</u>	<u>3.00</u>
<u>CMT-218 Human Relations Issues</u>	<u>3.00</u>
<u>CST-241 Planning/Estimating I</u>	<u>3.00</u>
<u>EGR-110 Intro to Engineering Tech</u>	<u>2.00</u>
<u>ELC-112 DC/AC Electricity</u>	<u>5.00</u>
<u>ELC-113 Residential Wiring</u>	<u>4.00</u>
<u>ELC-115 Industrial Wiring</u>	<u>4.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-118 National Electrical Code</u>	<u>2.00</u>
<u>ELC-119 NEC Calculations</u>	<u>2.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>
<u>ELC-126 Electrical Computations</u>	<u>3.00</u>
<u>ELC-128 Introduction to Programmable Logic Controller</u>	<u>3.00</u>
<u>ELC-138 DC Circuit Analysis</u>	<u>4.00</u>
<u>ELC-139 AC Circuit Analysis</u>	<u>4.00</u>
<u>ELC-215 Electrical Maintenance</u>	<u>3.00</u>
<u>ELN-131 Analog Electronics I</u>	<u>4.00</u>
<u>ELN-132 Analog Electronics II</u>	<u>4.00</u>
<u>ELN-133 Digital Electronics</u>	<u>4.00</u>
<u>ELN-150 Computer-Aided Drafting for Electronics</u>	<u>2.00</u>
<u>ELN-232 Introduction to Microprocessors</u>	<u>4.00</u>
<u>ELN-234 Communication Systems</u>	<u>4.00</u>
<u>ISC-112 Industrial Safety</u>	<u>2.00</u>
<u>ISC-113 Industrial Specifications</u>	<u>1.00</u>
<u>ISC-132 Manufacturing Quality Control</u>	<u>3.00</u>
<u>ISC-135 Principles of Industrial Management</u>	<u>4.00</u>
<u>ISC-136 Productivity Analysis I</u>	<u>3.00</u>
<u>ISC-214 Job Analysis/Wages &amp; Salary</u>	<u>3.00</u>
<u>ISC-220 Lean Manufacturing</u>	<u>3.00</u>
<u>ISC-225 Facility Layout</u>	<u>4.00</u>
<u>ISC-243 Production and Operations Management I</u>	<u>3.00</u>
<u>ISC-255 Engineering Economy</u>	<u>3.00</u>
<u>REF-116 Commercial Systems I</u>	<u>4.00</u>
<u>REF-117 Refrigeration Controls</u>	<u>4.00</u>



<u>RFE-260 Commercial Systems II</u>	4.00
<u>SST-140 Green Building and Design Concepts</u>	3.00
<u>WBL-110 World of Work</u>	1.00
<u>WBL-111 Work-Based Learning I</u>	1.00
<u>WBL-112 Work-Based Learning I</u>	2.00
<u>WBL-113 Work-Based Learning I</u>	3.00
<u>WBL-114 Work-Based Learning I</u>	4.00
<u>WBL-121 Work-Based Learning II</u>	1.00
<u>WBL-122 Work-Based Learning II</u>	2.00
<u>WBL-123 Work-Based Learning II</u>	3.00
<u>WBL-131 Work-Based Learning III</u>	1.00
<u>WBL-132 Work-Based Learning III</u>	2.00
<u>WBL-211 Work-Based Learning IV</u>	1.00
<u>WLD-110 Cutting Processes</u>	2.00
<u>WLD-112 Basic Welding Processes</u>	2.00
<u>WLD-115 SMAW (Stick) Plate</u>	5.00
<u>WLD-116 SMAW (stick) Plate/Pipe</u>	4.00
<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	4.00
<u>WLD-122 GMAW (MIG) Plate/Pipe</u>	3.00
<u>WLD-131 GTAW (TIG) Plate</u>	4.00
<u>WLD-132 GTAW (TIG) Plate/Pipe</u>	3.00
<u>WLD-141 Symbols and Specifications</u>	3.00
<u>WLD-143 Welding Metallurgy</u>	2.00
<u>WLD-151 Fabrication I</u>	4.00
<u>WLD-215 SMAW (stick) Pipe</u>	4.00
<u>WLD-231 GTAW (TIG) Pipe</u>	3.00
<u>WLD-261 Certification Practices</u>	2.00
<u>WLD-265 Automated Welding/Cutting</u>	4.00

Total Credits To Complete

67

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / D35100

## Air Conditioning, Heating & Refrigeration Technology Diploma D35100

### Air Conditioning, Heating & Refrigeration Technology (35100) CIP 47.0201




🕒 Last updated on Jan. 13, 2020, 8:57 a.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">AHR-110 Introduction to Refrigeration</a>	<a href="#">5.00</a>
 <a href="#">AHR-112 Heating Technology</a>	<a href="#">4.00</a>
 <a href="#">ELC-111 Introduction to Electricity</a>	<a href="#">3.00</a>
<a href="#">CST-131 OSHA/Safety/Certification</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 18**

### First Year Spring:

Take the following courses.

 <a href="#">AHR-114 Heat Pump Technology</a>	<a href="#">4.00</a>
<a href="#">AHR-130 HVAC Controls</a>	<a href="#">3.00</a>
<a href="#">AHR-151 HVAC Duct Systems I</a>	<a href="#">2.00</a>
<a href="#">AHR-160 Refrigerant Certification</a>	<a href="#">1.00</a>
<a href="#">AHR-213 HVACR Building Code</a>	<a href="#">2.00</a>
<a href="#">EGR-125 Appl Software for Tech</a>	<a href="#">2.00</a>

**Credits: 14**

### First Year Summer:

Take the following courses.

 <a href="#">AHR-113 Comfort Cooling</a>	<a href="#">4.00</a>
<a href="#">AHR-211 Residential System Design</a>	<a href="#">3.00</a>

Take three semester hour credits from the following general education courses.

<u>ANT-210 General Anthropology</u>	<u>3.00</u>
<u>ANT-220 Cultural Anthropology</u>	<u>3.00</u>
<u>ANT-230 Physical Anthropology</u>	<u>3.00</u>
<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology</u>	<u>3.00</u>
<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>COM-231 Public Speaking</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>

<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>HUM-110 Technology and Society.</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MAT-110 Mathematical Measurement and Literacy.</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>

PSY-241 Developmental Psychology	3.00
PSY-243 Child Psychology	3.00
PSY-246 Adolescent Psychology	3.00
PSY-249 Psychology of Aging	3.00
PSY-259 Human Sexuality	3.00
PSY-275 Health Psychology	3.00
PSY-281 Abnormal Psychology	3.00
REL-110 World Religions	3.00
REL-211 Introduction to Old Testament	3.00
REL-212 Introduction to New Testament	3.00
SOC-210 Introduction to Sociology	3.00
SOC-213 Sociology of the Family	3.00
SOC-220 Social Problems	3.00
SOC-230 Race and Ethnic Relations	3.00
SOC-234 Sociology of Gender	3.00
SOC-240 Social Psychology	3.00
SOC-242 Sociology of Deviance	3.00
SOC-250 Sociology of Religion	3.00

**Credits: 10**

# Total Credits To Complete

**42**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100CC

## Air Conditioning, Heating & Refrigeration Technology Comfort Cooling Certificate C35100CC

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">AHR-110 Introduction to Refrigeration</a>	<u>5.00</u>
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<a href="#">ELC-111 Introduction to Electricity</a>	<u>3.00</u>
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**Credits: 8**

### First Year Spring:

Take the following courses.

<a href="#">AHR-130 HVAC Controls</a>	<u>3.00</u>
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**Credits: 3**

### First Year Summer:

Take the following courses.

<a href="#">AHR-113 Comfort Cooling</a>	<u>4.00</u>
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<a href="#">AHR-211 Residential System Design</a>	<u>3.00</u>
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**Credits: 7**

## Total Credits To Complete

**18**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100CO

## Air Conditioning, Heating & Refrigeration Technology Commercial Certificate C35100CO

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">AHR-110 Introduction to Refrigeration</a>	<u>5.00</u>
<a href="#">AHR-225 Commercial System Design</a>	<u>3.00</u>
<a href="#">ELC-111 Introduction to Electricity</a>	<u>3.00</u>

**Credits: 11**

### First Year Spring:

Take the following courses.

<a href="#">AHR-160 Refrigerant Certification</a>	<u>1.00</u>
<a href="#">AHR-213 HVACR Building Code</a>	<u>2.00</u>
<a href="#">AHR-215 Commercial HVAC Controls</a>	<u>2.00</u>
<a href="#">AHR-245 Chiller Systems</a>	<u>2.00</u>

**Credits: 7**

## Total Credits To Complete

**18**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100HP

## Air Conditioning, Heating & Refrigeration Technology Heat Pump Certificate C35100HP

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">AHR-110 Introduction to Refrigeration</a>	<u>5.00</u>
<a href="#">ELC-111 Introduction to Electricity</a>	<u>3.00</u>

**Credits: 8**

### First Year Spring:

Take the following courses.

<a href="#">AHR-114 Heat Pump Technology</a>	<u>4.00</u>
<a href="#">AHR-130 HVAC Controls</a>	<u>3.00</u>

**Credits: 7**

### First Year Summer:

Take the following courses.

<a href="#">AHR-211 Residential System Design</a>	<u>3.00</u>
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**Credits: 3**

## Total Credits To Complete

**18**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100HC

## Air Conditioning, Heating & Refrigeration Technology Heating Certificate C35100HC

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">AHR-110 Introduction to Refrigeration</a>	<a href="#">5.00</a>
<a href="#">AHR-112 Heating Technology</a>	<a href="#">4.00</a>
<a href="#">ELC-111 Introduction to Electricity</a>	<a href="#">3.00</a>

**Credits: 12**

### First Year Spring:

Take the following courses.

<a href="#">AHR-130 HVAC Controls</a>	<a href="#">3.00</a>
<a href="#">AHR-240 Hydronic Heating</a>	<a href="#">2.00</a>

**Credits: 5**

## Total Credits To Complete

**17**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100RF

## Air Conditioning, Heating & Refrigeration Technology Refrigeration Certificate C35100RF

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">AHR-110 Introduction to Refrigeration</a>	<u>5.00</u>
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<a href="#">ELC-111 Introduction to Electricity</a>	<u>3.00</u>
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**Credits: 8**

### First Year Spring:

Take the following courses.

<a href="#">AHR-115 Refrigeration Systems</a>	<u>2.00</u>
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<a href="#">AHR-130 HVAC Controls</a>	<u>3.00</u>
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<a href="#">AHR-160 Refrigerant Certification</a>	<u>1.00</u>
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**Credits: 6**

### First Year Summer:

Take the following courses.

<a href="#">AHR-235 Refrigeration Design</a>	<u>3.00</u>
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**Credits: 3**

## Total Credits To Complete

**17**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100MI

## Air Conditioning, Heating & Refrigeration Technology MTC II Certificate C35100MI

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on Nov. 1, 2019, 4:10 p.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">AHR-110 Introduction to Refrigeration</a>	<u>5.00</u>
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<a href="#">AHR-112 Heating Technology</a>	<u>4.00</u>
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**Credits: 9**

### First Year Spring:

Take the following courses.

<a href="#">AHR-114 Heat Pump Technology</a>	<u>4.00</u>
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<a href="#">AHR-160 Refrigerant Certification</a>	<u>1.00</u>
---	-------------

<a href="#">ELC-125 Diagrams and Schematics</a>	<u>2.00</u>
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**Credits: 9**

## Total Credits To Complete

**16**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100HD

## Air Conditioning, Heating & Refrigeration Technology HVAC Design Certificate C35100HD

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">AHR-225 Commercial System Design</a>	<u>3.00</u>
<a href="#">BPR-130 Print Reading-Construction</a>	<u>3.00</u>
<a href="#">CMT-210 Construction Management Fundamentals</a>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<a href="#">AHR-213 HVACR Building Code</a>	<u>2.00</u>
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**Credits: 2**

### First Year Summer:

Take the following courses.

<a href="#">AHR-211 Residential System Design</a>	<u>3.00</u>
<a href="#">AHR-255 Indoor Air Quality</a>	<u>2.00</u>

**Credits: 5**

# Total Credits To Complete

**16**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100MB

## Air Conditioning, Heating & Refrigeration Technology MTC I Certificate C35100MB

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on Nov. 1, 2019, 4:11 p.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">AHR-110 Introduction to Refrigeration</a>	<u>5.00</u>
<a href="#">BPR-130 Print Reading-Construction</a>	<u>3.00</u>
<a href="#">ELC-112 DC/AC Electricity</a>	<u>5.00</u>

**Credits: 13**

### First Year Spring:

Take the following courses.

<a href="#">AHR-215 Commercial HVAC Controls</a>	<u>2.00</u>
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**Credits: 2**

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100BA

## Air Conditioning, Heating & Refrigeration Technology Basic Certificate C35100BA

Air Conditioning, Heating &amp; Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in one semester. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">AHR-110 Introduction to Refrigeration</a>	<u>5.00</u>
<a href="#">AHR-112 Heating Technology</a>	<u>4.00</u>
<a href="#">CST-131 OSHA/Safety/Certification</a>	<u>3.00</u>
<a href="#">ELC-111 Introduction to Electricity</a>	<u>3.00</u>

**Credits: 15**

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100PI

## CCPP Air Conditioning, Heating & Refrigeration Technology Intermediate Certificate C35100PI

Air Conditioning, Heating & Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

## Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

### Take the following courses.:

<a href="#">AHR-110 Introduction to Refrigeration</a>	<u>5.00</u>
<a href="#">AHR-113 Comfort Cooling</a>	<u>4.00</u>
<a href="#">AHR-114 Heat Pump Technology</a>	<u>4.00</u>
<a href="#">AHR-160 Refrigerant Certification</a>	<u>1.00</u>
<a href="#">AHR-213 HVACR Building Code</a>	<u>2.00</u>

**Credits: 16**

# Total Credits To Complete

**16**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Air Conditioning, Heating & Refrigeration Technology](#) / C35100PB

## CCPP Air Conditioning, Heating & Refrigeration Technology Basic Certificate C35100PB

Air Conditioning, Heating & Refrigeration Technology (35100) CIP 47.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

## Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

### Take the following courses.:

<a href="#">AHR-110 Introduction to Refrigeration</a>	<u>5.00</u>
<a href="#">AHR-112 Heating Technology</a>	<u>4.00</u>
<a href="#">AHR-151 HVAC Duct Systems I</a>	<u>2.00</u>
<a href="#">ELC-111 Introduction to Electricity</a>	<u>3.00</u>

**Credits: 14**

# Total Credits To Complete

**14**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Associate Degree Nursing

## Associate Degree Nursing (45110) CIP 51.3801

🕒 Last updated on Oct. 18, 2019, 11:02 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Associate Degree Nursing Associate in Applied Science Degree A45110T LPN to ADN](#) 72 SHC total »

[Associate Degree Nursing Associate in Applied Science Degree A45110 Fall Admission](#) 69-70 SHC total »

[Associate Degree Nursing Associate in Applied Science Degree A45110 Spring Admission](#) 69-70 SHC total »

[CCPP Therapeutic & Diagnostic Services/Nurse Aide-Nursing Diploma D45970PU CIP 51.3902](#) 40 SHC total »

### Additional Information:

Note 1 – Class sessions and clinical rotations in NUR courses will be scheduled during weekdays, evenings or weekends.

Note 2 – For students enrolled in the Associate Degree Nursing or the Practical Nursing programs, numerical grades below 'B' in all required nursing courses are considered unsatisfactory attainment of course completion.

[Comprehensive List of Nursing Education Program Information](#)

[Nursing Education Programs Competency Standards and Progression Policy](#)

[A45110 Associate Degree Nursing Academic Plan](#)

### Notes:

For additional information regarding this program, contact the chair, Emily Fink, [emily.fink@rccc.edu](mailto:emily.fink@rccc.edu).

### Faculty Mentors:

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☰ NCRC

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate Degree Nursing](#) / A45110T

## Associate Degree Nursing Associate in Applied Science Degree A45110T LPN to ADN

Associate Degree Nursing (45110) CIP 51.3801


 Last updated on Oct. 18, 2019, 11:08 a.m.

Associate Degree Nursing for students who are LPNs.

The  symbol denotes a core course that may not be substituted.

### First Year Spring:

Take the following courses.

 <a href="#">NUR-221 LPN to ADN Concepts I</a>	<a href="#">9.00</a>
<a href="#">BIO-168 Anatomy and Physiology I</a>	<a href="#">4.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">PSY-150 General Psychology</a>	<a href="#">3.00</a>

**Credits: 19**

### First Year Summer:

Take the following courses.

<a href="#">BIO-169 Anatomy and Physiology II</a>	<a href="#">4.00</a>
<a href="#">PSY-241 Developmental Psychology</a>	<a href="#">3.00</a>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<a href="#">3.00</a>

**Credits: 10**

### First Year Fall:

Take the following courses.

 <a href="#">NUR-223 LPN to ADN Concepts II</a>	<a href="#">9.00</a>
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Take one of the following humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
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<a href="#">ART-114 Art History Survey I</a>	<u>3.00</u>
<a href="#">ART-115 Art History Survey II</a>	<u>3.00</u>
<a href="#">HUM-115 Critical Thinking</a>	<u>3.00</u>
<a href="#">MUS-110 Music Appreciation</a>	<u>3.00</u>
<a href="#">MUS-112 Introduction to Jazz</a>	<u>3.00</u>
<a href="#">PHI-240 Introduction to Ethics</a>	<u>3.00</u>

Take one of the following microbiology courses.

<a href="#">BIO-175 General Microbiology</a>	<u>3.00</u>
<a href="#">BIO-275 Microbiology</a>	<u>4.00</u>

**Credits: 15-16**

### Additional Information:

## LPN to ADN

Of the 72 SHC required for the degree, 28 SHC will be awarded: Students who successfully complete NUR 221 will be granted credit for NUR 111, NUR 112, NUR 113, and NUR 211 (23 SHC). Students who successfully complete NUR 223 will be granted credit for NUR 114 (5 SHC). All general education courses are required to be taken prior to entry into the LPN to ADN option.

# Total Credits To Complete

**72**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate Degree Nursing](#) / A45110F

## Associate Degree Nursing Associate in Applied Science Degree A45110 Fall Admission

Associate Degree Nursing (45110) CIP 51.3801

🕒 Last updated on June 28, 2019, 10:59 a.m.

Associate Degree Nursing Sequence for Fall Admission:

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">NUR-111 Introduction to Health Concepts</a>	<u>8.00</u>
<a href="#">BIO-168 Anatomy and Physiology I</a>	<u>4.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>

**Credits: 18**

### First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">NUR-112 Health-Illness Concepts</a>	<u>5.00</u>
<input checked="" type="checkbox"/> <a href="#">NUR-113 Family Health Concepts</a>	<u>5.00</u>
<a href="#">BIO-169 Anatomy and Physiology II</a>	<u>4.00</u>
<a href="#">PSY-241 Developmental Psychology</a>	<u>3.00</u>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<u>3.00</u>

**Credits: 20**

### First Year Summer:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">NUR-211 Health Care Concepts</a>	<u>5.00</u>
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**Credits: 5**

### Second Year Fall:

Take the following courses.

✔ <a href="#">NUR-114 Holistic Health Concepts</a>	<a href="#">5.00</a>
✔ <a href="#">NUR-212 Health System Concepts</a>	<a href="#">5.00</a>

Take one of the following microbiology courses.

<a href="#">BIO-175 General Microbiology</a>	<a href="#">3.00</a>
<a href="#">BIO-275 Microbiology</a>	<a href="#">4.00</a>

**Credits: 13-14**

## Second Year Spring:

Take the following courses.

✔ <a href="#">NUR-213 Complex Health Concepts</a>	<a href="#">10.00</a>
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Take one of the following humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
<a href="#">HUM-115 Critical Thinking</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>

**Credits: 13**

## Additional Information:

### Note 1

For students enrolled in the Associate Degree Nursing or the Practical Nursing programs, numerical grades below 'B' in all required nursing courses are considered unsatisfactory attainment of course competencies.

### Note 2

Class sessions and clinical rotations in NUR courses may be scheduled during weekdays, evenings, or weekends.

# Total Credits To Complete

**69-70**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate Degree Nursing](#) / A45110S

## Associate Degree Nursing Associate in Applied Science Degree A45110 Spring Admission

Associate Degree Nursing (45110) CIP 51.3801


🕒 Last updated on June 28, 2019, 10:59 a.m.

Associate Degree Nursing Sequence for Spring Admission:

The  symbol denotes a core course that may not be substituted.

### First Year Spring:

Take the following courses.

 <a href="#">NUR-111 Introduction to Health Concepts</a>	<a href="#">8.00</a>
<a href="#">BIO-168 Anatomy and Physiology I</a>	<a href="#">4.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">PSY-150 General Psychology</a>	<a href="#">3.00</a>

**Credits: 18**

### First Year Summer:

Take the following courses.

<a href="#">BIO-169 Anatomy and Physiology II</a>	<a href="#">4.00</a>
<a href="#">PSY-241 Developmental Psychology</a>	<a href="#">3.00</a>



Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<a href="#">3.00</a>

**Credits: 10**

### First Year Fall:

Take the following courses.

 <a href="#">NUR-112 Health-Illness Concepts</a>	<a href="#">5.00</a>
 <a href="#">NUR-113 Family Health Concepts</a>	<a href="#">5.00</a>

**Credits: 10**

### Second Year Spring:

Take the following courses

✔ <a href="#">NUR-114 Holistic Health Concepts</a>	<a href="#">5.00</a>
✔ <a href="#">NUR-212 Health System Concepts</a>	<a href="#">5.00</a>

Take one of the following microbiology courses.

<a href="#">BIO-175 General Microbiology.</a>	<a href="#">3.00</a>
<a href="#">BIO-275 Microbiology.</a>	<a href="#">4.00</a>

**Credits: 13-14**

## Second Year Summer:

Take the following courses.

✔ <a href="#">NUR-211 Health Care Concepts</a>	<a href="#">5.00</a>
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**Credits: 5**

## Second Year Fall:

Take the following courses.

✔ <a href="#">NUR-213 Complex Health Concepts</a>	<a href="#">10.00</a>
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Take one of the following humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
<a href="#">HUM-115 Critical Thinking</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>

**Credits: 13**

## Additional Information:

### Note 1

For students enrolled in the Associate Degree Nursing or the Practical Nursing programs, numerical grades below 80, 'B' in all required nursing courses are considered unsatisfactory attainment of course competencies.

### Note 2

Class sessions and clinical rotations in NUR courses may be scheduled during weekdays, evenings, or weekends.

# Total Credits To Complete

**69-70**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate Degree Nursing](#) / D45970PU

## CCPP Therapeutic & Diagnostic Services/Nurse Aide-Nursing Diploma D45970PU CIP 51.3902

Associate Degree Nursing (45110) CIP 51.3801

🕒 Last updated on Feb. 26, 2020, 5:46 p.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">ACA-118 College Study Skills</a>	<u>2.00</u>
<a href="#">BIO-168 Anatomy and Physiology I</a>	<u>4.00</u>
<a href="#">BIO-169 Anatomy and Physiology II</a>	<u>4.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
<a href="#">HSC-120 CPR</a>	<u>1.00</u>
<a href="#">HUM-115 Critical Thinking</a>	<u>3.00</u>
<a href="#">MED-120 Survey of Medical Terminology</a>	<u>2.00</u>
<a href="#">NAS-101 Nurse Aide I</a>	<u>6.00</u>
<a href="#">NAS-102 Nurse Aide II</a>	<u>6.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>
<a href="#">PSY-241 Developmental Psychology</a>	<u>3.00</u>

## Total Credits To Complete

40

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Associate in Arts

## Associate in Arts (10100) CIP 24.0101

🕒 Last updated on Sept. 20, 2019, 1:57 p.m.

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. The degree program includes opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use. Academic advisors are available to assist students in selecting courses that best meet students' interests and the requirements of transfer institutions. Because course requirements vary among four-year institutions, students should obtain current catalogs from the schools they plan to attend.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Associate in Arts A10100](#) »  
60-61 SHC total

[CCPP College Transfer Pathway to Associate in Arts P1012C](#) »  
32-33 SHC total

### Notes:

For additional information regarding this program, contact the dean, Carol Scherczinger, [carol.scherczinger@rccc.edu](mailto:carol.scherczinger@rccc.edu).

### Faculty Mentors:

Caroll Hodgson *Chair*

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☎ [704-216-3805](tel:704-216-3805)

📍 North

Holli Kempton *Chair*

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📍 North

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📍 South

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate in Arts](#) / A10100

## Associate in Arts A10100



Associate in Arts (10100) CIP 24.0101

🕒 Last updated on Feb. 21, 2020, 4:10 p.m.

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">ACA-122 College Transfer Success</a>	<a href="#">1.00</a>
 <a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

Take one communication/humanities/fine arts course from the following list. A total of three of these courses from at least two different disciplines (prefixes) are required to earn this degree.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
<a href="#">COM-120 Intro to Interpersonal Communication</a>	<a href="#">3.00</a>
<a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>
<a href="#">DRA-111 Theatre Appreciation</a>	<a href="#">3.00</a>
<a href="#">ENG-231 American Literature I</a>	<a href="#">3.00</a>
<a href="#">ENG-232 American Literature II</a>	<a href="#">3.00</a>
<a href="#">ENG-241 British Literature I</a>	<a href="#">3.00</a>
<a href="#">ENG-242 British Literature II</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>

Take one of the following social/behavioral sciences courses. A total of three of these courses from at least two different disciplines (prefixes) are required to earn this degree.

<a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
<a href="#">ECO-252 Principles of Macroeconomics</a>	<a href="#">3.00</a>
<a href="#">HIS-111 World Civilizations I</a>	<a href="#">3.00</a>
<a href="#">HIS-112 World Civilizations II</a>	<a href="#">3.00</a>
<a href="#">HIS-131 American History I</a>	<a href="#">3.00</a>

<u>HIS-132 American History II</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>

Take 5 semester hour credits from the OTHER REQUIRED HOURS course list located at the end of this program.

**Credits: 15**

## First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <u>ENG-112 Writing and Research in the Disciplines</u>	<u>3.00</u>
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Take one communication/humanities/fine arts course from the list above. A total of three of these courses from at least two different disciplines (prefixes) are required to earn this degree. This is your second course.

Take one social/behavioral sciences course from the list above. A total of three of these courses from at least two different disciplines (prefixes) are required to earn this degree. This is your second course.

Take one of the following Natural Sciences sets.

### Set One

<u>AST-111 Descriptive Astronomy</u>	<u>3.00</u>
<u>AST-111A Descriptive Astronomy Lab</u>	<u>1.00</u>

### Set Two

<u>AST-151 General Astronomy I</u>	<u>3.00</u>
<u>AST-151A General Astronomy I Lab</u>	<u>1.00</u>

### Set Three

<u>BIO-110 Principles of Biology</u>	<u>4.00</u>
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### Set Four

<u>BIO-111 General Biology I</u>	<u>4.00</u>
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### Set Five

<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
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Set Six

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<a href="#">PHY-110 Conceptual Physics</a>	<u>3.00</u>
<a href="#">PHY-110A Conceptual Physics Lab</a>	<u>1.00</u>

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Take one of the following math courses.

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<input checked="" type="checkbox"/> <a href="#">MAT-143 Quantitative Literacy</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">MAT-152 Statistical Methods I</a>	<u>4.00</u>
<input checked="" type="checkbox"/> <a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>

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**Credits: 16**

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## Second Year Fall:

Take one communication/humanities/fine arts course from the list above. A total of three of these courses from at least two different disciplines (prefixes) are required to earn this degree. This is your third course.

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Take one social/behavioral sciences course from the list above. A total of three of these courses from at least two different disciplines (prefixes) are required to earn this degree. This is your third course.

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Take 6 semester hour credits from the following additional general education courses, or from any of the other general education courses listed above that are not taken to satisfy the general education requirements.

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<input checked="" type="checkbox"/> <a href="#">ANT-210 General Anthropology</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">ANT-220 Cultural Anthropology</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">ANT-230 Physical Anthropology</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">ANT-230A Physical Anthropology Lab</a>	<u>1.00</u>
<input checked="" type="checkbox"/> <a href="#">ANT-240 Archaeology</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">AST-152 General Astronomy II</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">AST-152A General Astronomy II Lab</a>	<u>1.00</u>
<input checked="" type="checkbox"/> <a href="#">BIO-112 General Biology II</a>	<u>4.00</u>
<input checked="" type="checkbox"/> <a href="#">BIO-140 Environmental Biology</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">CHM-131 Introduction to Chemistry</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">CHM-131A Introduction to Chemistry Lab</a>	<u>1.00</u>
<input checked="" type="checkbox"/> <a href="#">CHM-132 Organic and Biochemistry</a>	<u>4.00</u>
<input checked="" type="checkbox"/> <a href="#">CHM-152 General Chemistry II</a>	<u>4.00</u>
<input checked="" type="checkbox"/> <a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">CIS-115 Intro to Programming &amp; Logic</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">COM-110 Introduction to Communication</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">COM-140 Introduction to Intercultural Communication</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">DRA-126 Storytelling</a>	<u>3.00</u>

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ECO-151 Survey of Economics	3.00
ENG-113 Literature-Based Research	3.00
ENG-114 Professional Research & Reporting	3.00
ENG-131 Introduction to Literature	3.00
ENG-261 World Literature I	3.00
ENG-262 World Literature II	3.00
FRE-111 Elementary French I	3.00
FRE-112 Elementary French II	3.00
GEO-111 World Regional Geography.	3.00
GEO-112 Cultural Geography.	3.00
GEO-130 General Physical Geography.	3.00
HIS-122 Western Civilization II	3.00
HUM-110 Technology and Society.	3.00
HUM-115 Critical Thinking	3.00
HUM-120 Cultural Studies	3.00
HUM-122 Southern Culture	3.00
HUM-130 Myth in Human Culture	3.00
MAT-172 Precalculus Trigonometry.	4.00
MAT-263 Brief Calculus	4.00
MAT-271 Calculus I	4.00
MAT-272 Calculus II	4.00
MAT-273 Calculus III	4.00
MUS-210 History of Rock Music	3.00
PHI-230 Introduction to Logic	3.00
PHY-151 College Physics I	4.00
PHY-152 College Physics II	4.00
PHY-251 General Physics I	4.00
PHY-252 General Physics II	4.00
POL-220 International Relations	3.00
PSY-237 Social Psychology.	3.00
PSY-239 Psychology of Personality.	3.00
PSY-241 Developmental Psychology.	3.00
PSY-281 Abnormal Psychology.	3.00
REL-110 World Religions	3.00
REL-211 Introduction to Old Testament	3.00
REL-212 Introduction to New Testament	3.00
SOC-213 Sociology of the Family.	3.00

✓ <a href="#">SOC-220 Social Problems</a>	<a href="#">3.00</a>
✓ <a href="#">SOC-230 Race and Ethnic Relations</a>	<a href="#">3.00</a>
✓ <a href="#">SOC-240 Social Psychology</a>	<a href="#">3.00</a>
✓ <a href="#">SPA-111 Elementary Spanish I</a>	<a href="#">3.00</a>
✓ <a href="#">SPA-112 Elementary Spanish II</a>	<a href="#">3.00</a>
✓ <a href="#">SPA-211 Intermediate Spanish I</a>	<a href="#">3.00</a>
✓ <a href="#">SPA-212 Intermediate Spanish II</a>	<a href="#">3.00</a>

Take 3 semester hour credits from the OTHER REQUIRED HOURS course list located at the end of this program.

**Credits: 15**

## Second Year Spring:

Take 8 semester hour credits from the list of additional general education courses above, or from any of the other general education courses listed above that are not taken to satisfy the general education requirements. These must be different than the courses you have already taken.

Take 6 semester hour credits from the OTHER REQUIRED HOURS course list located at the end of this program.

**Credits: 14**

## OTHER REQUIRED HOURS Course List:

Take 14 SHC from the following courses, or from any of the general education courses listed above not taken to satisfy the general education requirement or the additional general education requirement. WBL-111 does not count toward graduation or in the 60 hour minimum for this degree since it is not a transfer course. Students selecting WBL-111 will be required to complete 15 SHC for Additional Other Required Hours for a minimum of 61 SHC to earn the Associate in Arts degree.

<a href="#">ACC-120 Principles of Financial Accounting</a>	<a href="#">4.00</a>
<a href="#">ACC-121 Principles of Managerial Accounting</a>	<a href="#">4.00</a>
<a href="#">ART-121 Two-Dimensional Design</a>	<a href="#">3.00</a>
<a href="#">ART-122 Three-Dimensional Design</a>	<a href="#">3.00</a>
<a href="#">ART-131 Drawing I</a>	<a href="#">3.00</a>
<a href="#">ART-132 Drawing II</a>	<a href="#">3.00</a>
<a href="#">ART-135 Figure Drawing I</a>	<a href="#">3.00</a>
<a href="#">ART-212 Gallery Assistantship I</a>	<a href="#">3.00</a>
<a href="#">ART-214 Portfolio and Resume</a>	<a href="#">1.00</a>
<a href="#">ART-231 Printmaking I</a>	<a href="#">3.00</a>
<a href="#">ART-235 Figure Drawing II</a>	<a href="#">3.00</a>
<a href="#">ART-240 Painting I</a>	<a href="#">3.00</a>
<a href="#">ART-241 Painting II</a>	<a href="#">3.00</a>
<a href="#">ART-244 Watercolor</a>	<a href="#">3.00</a>
<a href="#">ART-261 Photography I</a>	<a href="#">3.00</a>

<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-264 Digital Photography I</u>	<u>3.00</u>
<u>ART-265 Digital Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-267 Videography II</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-282 Sculpture II</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>BIO-163 Basic Anatomy &amp; Physiology</u>	<u>5.00</u>
<u>BIO-168 Anatomy and Physiology I</u>	<u>4.00</u>
<u>BIO-169 Anatomy and Physiology II</u>	<u>4.00</u>
<u>BIO-250 Genetics</u>	<u>4.00</u>
<u>BIO-275 Microbiology</u>	<u>4.00</u>
<u>BUS-110 Introduction to Business</u>	<u>3.00</u>
<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-137 Principles of Management</u>	<u>3.00</u>
<u>CJC-111 Introduction to Criminal Justice</u>	<u>3.00</u>
<u>CJC-121 Law Enforcement Operations</u>	<u>3.00</u>
<u>CJC-141 Corrections</u>	<u>3.00</u>
<u>COM-150 Introduction to Mass Communication</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>
<u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-126 Creative Writing II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HEA-110 Personal Health/Wellness</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-131 Chorus I</u>	<u>1.00</u>
<u>MUS-132 Chorus II</u>	<u>1.00</u>

<u>PED-110 Fit and Well for Life</u>	<u>2.00</u>
<u>PED-111 Physical Fitness I</u>	<u>1.00</u>
<u>PED-117 Weight Training I</u>	<u>1.00</u>
<u>PED-118 Weight Training II</u>	<u>1.00</u>
<u>PED-121 Walk, Jog, Run</u>	<u>1.00</u>
<u>PED-122 Yoga I</u>	<u>1.00</u>
<u>PED-123 Yoga II</u>	<u>1.00</u>
<u>PED-217 Pilates I</u>	<u>1.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-215 Positive Psychology</u>	<u>3.00</u>
<u>PSY-231 Forensic Psychology</u>	<u>3.00</u>
<u>PSY-243 Child Psychology</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality</u>	<u>3.00</u>
<u>PSY-275 Health Psychology</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-245 Drugs and Society</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>

### Additional Information:

## Work-Based Learning (WBL)

WBL-111 does not count toward graduation or in the 60 hour minimum for this degree since it is not a transfer course. Students selecting WBL-111 will be required to complete 15 SHC for Additional Other Required Hours for a minimum of 61 SHC to earn the Associate in Arts degree.

# Total Credits To Complete

**60-61**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate in Arts](#) / P1012C

## CCPP College Transfer Pathway to Associate in Arts P1012C

### Associate in Arts (10100) CIP 24.0101

🕒 Last updated on April 23, 2020, 9:36 a.m.

## Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The 🎯 symbol denotes a core course that may not be substituted.

### English Composition:

Take the following courses.

<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
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<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
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**Credits: 6**

### Humanities/Fine Arts/Communication:

Take three courses from the following list from at least two different subjects (prefixes).

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
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<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
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<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
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<a href="#">COM-120 Intro to Interpersonal Communication</a>	<a href="#">3.00</a>
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<a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>
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<a href="#">DRA-111 Theatre Appreciation</a>	<a href="#">3.00</a>
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<a href="#">ENG-231 American Literature I</a>	<a href="#">3.00</a>
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<a href="#">ENG-232 American Literature II</a>	<a href="#">3.00</a>
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<a href="#">ENG-241 British Literature I</a>	<a href="#">3.00</a>
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<a href="#">ENG-242 British Literature II</a>	<a href="#">3.00</a>
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<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
--	----------------------

<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
--	----------------------

<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>
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**Credits: 9**

### Social/Behavioral Sciences:

Take three courses from the following list from at least two different subjects (prefixes).



<a href="#"><u>ECO-251 Principles of Microeconomics</u></a>	<u>3.00</u>
<a href="#"><u>ECO-252 Principles of Macroeconomics</u></a>	<u>3.00</u>
<a href="#"><u>HIS-111 World Civilizations I</u></a>	<u>3.00</u>
<a href="#"><u>HIS-112 World Civilizations II</u></a>	<u>3.00</u>
<a href="#"><u>HIS-131 American History I</u></a>	<u>3.00</u>
<a href="#"><u>HIS-132 American History II</u></a>	<u>3.00</u>
<a href="#"><u>POL-120 American Government</u></a>	<u>3.00</u>
<a href="#"><u>PSY-150 General Psychology</u></a>	<u>3.00</u>
<a href="#"><u>SOC-210 Introduction to Sociology</u></a>	<u>3.00</u>

**Credits: 9**

## Math:

Take one course from the following list.

<a href="#"><u>MAT-143 Quantitative Literacy</u></a>	<u>3.00</u>
<a href="#"><u>MAT-152 Statistical Methods I</u></a>	<u>4.00</u>
<a href="#"><u>MAT-171 Precalculus Algebra</u></a>	<u>4.00</u>

**Credits: 3-4**

## Natural Sciences:

Take one of the following sets.

Set One:

<a href="#"><u>AST-111 Descriptive Astronomy</u></a>	<u>3.00</u>
<a href="#"><u>AST-111A Descriptive Astronomy Lab</u></a>	<u>1.00</u>

Set Two:

<a href="#"><u>AST-151 General Astronomy I</u></a>	<u>3.00</u>
<a href="#"><u>AST-151A General Astronomy I Lab</u></a>	<u>1.00</u>

Set Three:

<a href="#"><u>BIO-110 Principles of Biology</u></a>	<u>4.00</u>
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Set Four:

<a href="#"><u>BIO-111 General Biology I</u></a>	<u>4.00</u>
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Set Five:

CHM-151 General Chemistry I

4.00

Set Six:

PHY-110 Conceptual Physics

3.00

PHY-110A Conceptual Physics Lab

1.00

**Credits: 4**

## Other Required Hours - College Transfer Success:

Take the following courses.

ACA-122 College Transfer Success

1.00

**Credits: 1**

# Total Credits To Complete

**32-33**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Associate in Engineering

## Associate in Engineering (10500) CIP 14.0102

🕒 Last updated on Sept. 24, 2019, 10:38 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Associate in Engineering A10500](#)

60-61 SHC total

»

[CCPP College Transfer Pathway to Associate in Engineering P1052C](#)

34 SHC total

»

### Additional Information:

[North Carolina Community College Transfer Guide for UNC Charlotte](#)

[A10500 Associate in Engineering Academic Plan](#)

### Notes:

For additional information regarding this program, contact the chair, Tony Bean, [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu).

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate in Engineering](#) / A10500

## Associate in Engineering A10500





Associate in Engineering (10500) CIP 14.0102

🕒 Last updated on Jan. 13, 2020, 8:11 a.m.

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">ACA-122 College Transfer Success</a>	<u>1.00</u>
 <a href="#">EGR-150 Introduction to Engineering</a>	<u>2.00</u>
 <a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
 <a href="#">MAT-271 Calculus I</a>	<u>4.00</u>

Note:

**Calculus Requirement:** Students who are not calculus-ready will need to take MAT 171 and MAT 172 before taking MAT 271.





Take one of the following humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<u>3.00</u>
<a href="#">ART-114 Art History Survey I</a>	<u>3.00</u>
<a href="#">ART-115 Art History Survey II</a>	<u>3.00</u>
<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>
<a href="#">MUS-110 Music Appreciation</a>	<u>3.00</u>
<a href="#">MUS-112 Introduction to Jazz</a>	<u>3.00</u>

**Credits: 13**

### First Year Spring:

Take the following courses

 <a href="#">CHM-151 General Chemistry I</a>	<u>4.00</u>
 <a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
 <a href="#">MAT-272 Calculus II</a>	<u>4.00</u>
 <a href="#">PHY-251 General Physics I</a>	<u>4.00</u>

**Credits: 15**

## First Year Summer:

Take one of the following humanities/fine arts courses.

<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>

Take one of the following social/behavioral sciences courses.

<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>

**Credits: 6**

## Second Year Fall:

Take the following courses.

<u>MAT-273 Calculus III</u>	<u>4.00</u>
<u>PHY-252 General Physics II</u>	<u>4.00</u>

Take 6 semester hour credits from the OTHER REQUIRED HOURS course list located at the end of this program..

**Credits: 14**

## Second Year Spring:

Take the following course.

<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
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Take 6 semester hour credits from the OTHER REQUIRED HOURS course list located at the end of this program.

Take 3 semester hour credits from the following Other General Education courses.

<u>BIO-111 General Biology I</u>	<u>4.00</u>
<u>CHM-152 General Chemistry II</u>	<u>4.00</u>
<u>COM-110 Introduction to Communication</u>	<u>3.00</u>

<u>COM-231 Public Speaking</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>

**Credits: 12-13**

## OTHER REQUIRED HOURS Hours Course List:

Take 12 semester hour credits from the following list of courses. WBL-111 does not count toward graduation or in the 60 hour minimum for this degree since it is not a transfer course. Students selecting WBL-111 will be required to complete 13 SHC for Other Required Hours for a minimum of 61 SHC to earn the Associate in Engineering degree.

<u>CHM-152 General Chemistry II</u>	<u>4.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>DFT-170 Engineering Graphics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>EGR-220 Engineering Statics</u>	<u>3.00</u>
<u>EGR-228 Intro to Solid Mechanics</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>MAT-285 Differential Equations</u>	<u>3.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>

## Additional Information:

### Work-Based Learning (WBL)

WBL-111 does not count toward graduation or in the 60 hour minimum for this degree since it is not a transfer course. Students selecting WBL-111 will be required to complete 16 SHC for Additional Other Required Hours for a minimum of 61 SHC to earn the Associate in Engineering degree.

### Calculus Requirement

Students who are not calculus-ready will need to take MAT 171 and MAT 172 before taking MAT-271.

# Total Credits To Complete

**60-61**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate in Engineering](#) / P1052C

## CCPP College Transfer Pathway to Associate in Engineering P1052C

### Associate in Engineering (10500) CIP 14.0102

🕒 Last updated on March 17, 2020, 4:13 p.m.

## Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The 🎯 symbol denotes a core course that may not be substituted.

### English Composition:

Take the following courses.

<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>

**Credits: 6**

### Humanities/Fine Arts/Communication:

Take one of the following courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
<a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>
<a href="#">ENG-231 American Literature I</a>	<a href="#">3.00</a>
<a href="#">ENG-232 American Literature II</a>	<a href="#">3.00</a>
<a href="#">ENG-241 British Literature I</a>	<a href="#">3.00</a>
<a href="#">ENG-242 British Literature II</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>

**Credits: 3**

### Social/Behavioral Sciences:

Take the following courses.

<a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
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**Credits: 3**

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## Mathematics:

Take the following courses.

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<u>MAT-271 Calculus I</u>	<u>4.00</u>
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<u>MAT-272 Calculus II</u>	<u>4.00</u>
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**Credits: 8**

Note:

Students who do not place directly into MAT 271 must complete MAT 171 and MAT 172 prior to enrolling in MAT 271 Calculus I.

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## Natural Sciences:

Take one of the following courses.

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<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
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<u>PHY-251 General Physics I</u>	<u>4.00</u>
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<u>PHY-252 General Physics II</u>	<u>4.00</u>
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**Credits: 8**

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## Other Required Hours:

Take the following courses.

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<u>ACA-122 College Transfer Success</u>	<u>1.00</u>
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<u>DFT-170 Engineering Graphics</u>	<u>3.00</u>
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<u>EGR-150 Introduction to Engineering</u>	<u>2.00</u>
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**Credits: 6**

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# Total Credits To Complete

**34**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Associate in Fine Arts in Visual Arts

## Associate in Fine Arts in Visual Arts (10600) CIP 24.0101

🕒 Last updated on Sept. 24, 2019, 10:36 a.m.

The Associate in Fine Arts (AFA) in Visual Arts degree is designed for students who want to achieve one or more of the following goals: 1) Transfer into a four-year BFA or BAFA program; 2) Earn an Associate's degree that is focused on Visual Arts; 3) Strengthen personal creative work and improve personal portfolio; and/or (4) Explore a variety of creative techniques, mediums, and disciplines.

The AFA 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. The AFA in Visual Arts degree consists of required core visual arts foundational courses and of elective courses in a wide range of visual arts mediums and processes. It also includes opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers. All of the AFA in Visual Arts general education courses are Universal General Education Transfer Courses that are guaranteed to transfer for general education equivalency credit to each of the 16 constituent institutions in the 2014 Comprehensive Articulation Agreement (CAA).

The Fine & Applied Arts Programs offer numerous opportunities for AFA in Visual Arts students including two student art exhibitions per year; internship (WBL: Work-Based Learning) opportunities in the creative industries; field trips to galleries and museums, professional artist lectures; and one-on-one advising with career, transfer, and creative goals. Faculty are specifically focused on providing personalized assistance in the process of applying for transfer to four-year universities. As requirements vary among four-year institutions, students should obtain current catalogs from the colleges/universities they plan to attend and use them to inform their course selections. Please see information and links below concerning the Uniform Articulation Agreement to all seven UNC System BFA Programs as well as the Bilateral Transfer Agreement with UNC Charlotte.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Associate in Fine Arts in Visual Arts A10600](#) »

[60-61 SHC total](#)

[CCPP College Transfer Pathway to Associate in Fine Arts in Visual Arts P1062C](#) »

[32-33 SHC total](#)

### Additional Information:

Jenn Selby serves as the Director of Philanthropy, Transfer, and the Arts with Jonathan Hoffman serving as the Lead Instructor for the Associate in Fine Arts in Visual Arts transfer degree program and Ryland Perry serving as the Lead Instructor for the Advertising and Graphic Design Associate in Applied Science degree program. Rowan-Cabarrus Community College (RCCC) has a bilateral articulation agreement with UNC Charlotte's Department of Art & Art History. It is designed to assist AFA in Visual Arts graduates from RCCC in earning a BFA degree from UNC Charlotte. Please visit the [Fine and Applied Arts Program Website](#) or contact Jenn Selby for more details.

[Uniform Articulation Agreement \(Associate in Fine Arts in Visual Arts\)](#)

[Transfer Agreement with UNC Charlotte](#)

[Advertising and Graphic Design AAS](#)

[A10600 Associate in Fine Arts in Visual Arts Academic Plan](#)

### Notes:

For additional information regarding this program, contact the chair, [Jenn Selby](#).

## Faculty Mentors:

<p>Jonathan Hoffman <i>Chair</i></p> <hr/> <p>✉ <a href="mailto:jonathan.hoffman@rccc.edu">jonathan.hoffman@rccc.edu</a></p> <p>☎ <a href="tel:704-216-3819">704-216-3819</a></p> <p>📍 North</p>	<p>Jenn Selby <i>Director</i></p> <hr/> <p>✉ <a href="mailto:jenn.selby@rccc.edu">jenn.selby@rccc.edu</a></p> <p>☎ <a href="tel:704-216-3820">704-216-3820</a></p> <p>📍 North</p>
<p>John Williams <i>Faculty</i></p> <hr/> <p>✉ <a href="mailto:john.williams@rccc.edu">john.williams@rccc.edu</a></p> <p>☎ <a href="tel:704-216-7220">704-216-7220</a></p> <p>📍 North</p>	<p>Travis Phillips <i>Faculty</i></p> <hr/> <p>✉ <a href="mailto:travis.phillips@rccc.edu">travis.phillips@rccc.edu</a></p> <p>☎ <a href="tel:704-216-3837">704-216-3837</a></p> <p>📍 North</p>

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate in Fine Arts in Visual Arts](#) / A10600

## Associate in Fine Arts in Visual Arts A10600

Associate in Fine Arts in Visual Arts (10600) CIP 24.0101

🕒 Last updated on Feb. 21, 2020, 4:11 p.m.

The 🎯 symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

🎯 <a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
🎯 <a href="#">ART-121 Two-Dimensional Design</a>	<a href="#">3.00</a>
🎯 <a href="#">ART-131 Drawing I</a>	<a href="#">3.00</a>
🎯 <a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

Take one of the following math courses.

🎯 <a href="#">MAT-143 Quantitative Literacy</a>	<a href="#">3.00</a>
🎯 <a href="#">MAT-152 Statistical Methods I</a>	<a href="#">4.00</a>
🎯 <a href="#">MAT-171 Precalculus Algebra</a>	<a href="#">4.00</a>

**Credits: 15-16**

**Note:**

MAT-143 is recommended.

### First Year Spring:

Take the following courses.

🎯 <a href="#">ACA-122 College Transfer Success</a>	<a href="#">1.00</a>
🎯 <a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
🎯 <a href="#">ART-122 Three-Dimensional Design</a>	<a href="#">3.00</a>
🎯 <a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>

Take one of the following communications/humanities/fine arts courses. Two courses from two different prefixes are required to earn this degree.

🎯 <a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
🎯 <a href="#">COM-120 Intro to Interpersonal Communication</a>	<a href="#">3.00</a>
🎯 <a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>
🎯 <a href="#">DRA-111 Theatre Appreciation</a>	<a href="#">3.00</a>
🎯 <a href="#">ENG-231 American Literature I</a>	<a href="#">3.00</a>

✓ <a href="#">ENG-232 American Literature II</a>	<a href="#">3.00</a>
✓ <a href="#">ENG-241 British Literature I</a>	<a href="#">3.00</a>
✓ <a href="#">ENG-242 British Literature II</a>	<a href="#">3.00</a>
✓ <a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
✓ <a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
✓ <a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>

Take 3 semester hour credits from the ELECTIVES course list located at the end of this program. ART-135 Figure Drawing I is recommended.

**Credits: 16**

## Second Year Fall:

Take one of the following social/behavioral science courses. Two courses from two different prefixes are required to earn this degree.

✓ <a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
✓ <a href="#">ECO-252 Principles of Macroeconomics</a>	<a href="#">3.00</a>
✓ <a href="#">HIS-111 World Civilizations I</a>	<a href="#">3.00</a>
✓ <a href="#">HIS-112 World Civilizations II</a>	<a href="#">3.00</a>
✓ <a href="#">HIS-131 American History I</a>	<a href="#">3.00</a>
✓ <a href="#">HIS-132 American History II</a>	<a href="#">3.00</a>
✓ <a href="#">POL-120 American Government</a>	<a href="#">3.00</a>
✓ <a href="#">PSY-150 General Psychology</a>	<a href="#">3.00</a>
✓ <a href="#">SOC-210 Introduction to Sociology</a>	<a href="#">3.00</a>

Take one of the following natural sciences sets.

Set One:

✓ <a href="#">AST-111 Descriptive Astronomy</a>	<a href="#">3.00</a>
✓ <a href="#">AST-111A Descriptive Astronomy Lab</a>	<a href="#">1.00</a>

Set Two:

✓ <a href="#">AST-151 General Astronomy I</a>	<a href="#">3.00</a>
✓ <a href="#">AST-151A General Astronomy I Lab</a>	<a href="#">1.00</a>

Set Three:

✓ <a href="#">BIO-110 Principles of Biology</a>	<a href="#">4.00</a>
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Set Four:

[BIO-111 General Biology I](#) 4.00

Set Five:

[CHM-151 General Chemistry I](#) 4.00

**Note:**

Beginning Fall 2018, CHM 151 has a corequisite of MAT 171; if you select CHM 151 as your natural sciences course, you should select MAT 171 as your Math course or have credit for MAT 171.

Set Six:

[PHY-110 Conceptual Physics](#) 3.00

[PHY-110A Conceptual Physics Lab](#) 1.00

Take 8 semester hour credits from the ELECTIVES course list located at the end of this program. ART-132 Drawing II is recommended as one of these major electives.

**Credits: 15**

## Second Year Spring:

Take one of the following communications and humanities/fine arts courses. This is your second communications and humanities/fine arts requirement. It must not be the same course already taken, and must be from a different prefix than the communications and humanities/fine arts course already taken.

[ART-111 Art Appreciation](#) 3.00

[COM-231 Public Speaking](#) 3.00

[ENG-231 American Literature I](#) 3.00

[ENG-232 American Literature II](#) 3.00

[ENG-241 British Literature I](#) 3.00

[ENG-242 British Literature II](#) 3.00

[MUS-110 Music Appreciation](#) 3.00

[MUS-112 Introduction to Jazz](#) 3.00

[PHI-240 Introduction to Ethics](#) 3.00

Take one of the following social/behavioral sciences courses. This is your second social/behavioral sciences requirement. It must not be the same course already taken, and must be from a different prefix than the social/behavioral sciences course already taken.

[ECO-251 Principles of Microeconomics](#) 3.00

[ECO-252 Principles of Macroeconomics](#) 3.00

[HIS-111 World Civilizations I](#) 3.00

[HIS-112 World Civilizations II](#) 3.00

[HIS-131 American History I](#) 3.00

<u>HIS-122 American History II</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>

Take 8 semester hour credits from the ELECTIVES course list located at the end of this program.

**Credits: 14**

## ELECTIVES/Other Required Hours:

Take 19 SHC from the following courses. Because one course cannot fulfill two requirements from different areas of the program of study, do not select for your Other Required Hours the course that you selected to fulfill your Communications/Humanities/Fine Arts requirement or your Social/Behavioral Science requirement. WBL-111 does not count toward graduation or in the 60 hour minimum for this degree since it is not a transfer course. Students selecting WBL-111 will be required to complete 20 SHC for Other Required Hours for a minimum of 61 SHC to earn the Associate in Fine Arts in Visual Arts degree.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-117 Non-Western Art History</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-135 Figure Drawing I</u>	<u>3.00</u>
<u>ART-171 Digital Design I</u>	<u>3.00</u>
<u>ART-212 Gallery Assistantship I</u>	<u>3.00</u>
<u>ART-214 Portfolio and Resume</u>	<u>1.00</u>
<u>ART-215 Visual Art Portfolio</u>	<u>3.00</u>
<u>ART-231 Printmaking I</u>	<u>3.00</u>
<u>ART-232 Printmaking II</u>	<u>3.00</u>
<u>ART-235 Figure Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-264 Digital Photography I</u>	<u>3.00</u>
<u>ART-265 Digital Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-267 Videography II</u>	<u>3.00</u>
<u>ART-275 Introduction to Graphic Design</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-282 Sculpture II</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>

<a href="#"><u>ART-284 Ceramics II</u></a>	<u>3.00</u>
<a href="#"><u>ART-288 Studio</u></a>	<u>3.00</u>
<a href="#"><u>FRE-111 Elementary French I</u></a>	<u>3.00</u>
<a href="#"><u>FRE-112 Elementary French II</u></a>	<u>3.00</u>
<a href="#"><u>MUS-110 Music Appreciation</u></a>	<u>3.00</u>
<a href="#"><u>MUS-112 Introduction to Jazz</u></a>	<u>3.00</u>
<a href="#"><u>PHI-240 Introduction to Ethics</u></a>	<u>3.00</u>
<a href="#"><u>SPA-111 Elementary Spanish I</u></a>	<u>3.00</u>
<a href="#"><u>SPA-112 Elementary Spanish II</u></a>	<u>3.00</u>
<a href="#"><u>WBL-111 Work-Based Learning I</u></a>	<u>1.00</u>

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### Additional Information:

## Work-Based Learning (WBL)

WBL-111 does not count toward graduation or in the 60 hour minimum for this degree since it is not a transfer course. Students selecting WBL-111 will be required to complete 20 SHC for Other Required Hours for a minimum of 61 SHC to earn the Associate in Fine Arts in Visual Arts degree.

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# Total Credits To Complete

**60-61**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate in Fine Arts in Visual Arts](#) / P1062C

## CCPP College Transfer Pathway to Associate in Fine Arts in Visual Arts P1062C

Associate in Fine Arts in Visual Arts (10600) CIP 24.0101

🕒 Last updated on March 17, 2020, 4:12 p.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### English Composition:

Take the following courses.

<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
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<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
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**Credits: 6**

#### Humanities/Fine Arts/Communication:

Take two courses from the following list from two different subjects (prefixes).

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
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<a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>
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<a href="#">ENG-231 American Literature I</a>	<a href="#">3.00</a>
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<a href="#">ENG-232 American Literature II</a>	<a href="#">3.00</a>
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<a href="#">ENG-241 British Literature I</a>	<a href="#">3.00</a>
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<a href="#">ENG-242 British Literature II</a>	<a href="#">3.00</a>
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<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
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<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
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<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>
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**Credits: 6**

#### Social/Behavioral Sciences:

Take two courses from the following list from two different subjects (prefixes).

<a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
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<a href="#">ECO-252 Principles of Macroeconomics</a>	<a href="#">3.00</a>
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<a href="#">HIS-111 World Civilizations I</a>	<a href="#">3.00</a>
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<a href="#"><u>HIS-112 World Civilizations II</u></a>	<u>3.00</u>
<a href="#"><u>HIS-131 American History I</u></a>	<u>3.00</u>
<a href="#"><u>HIS-132 American History II</u></a>	<u>3.00</u>
<a href="#"><u>POL-120 American Government</u></a>	<u>3.00</u>
<a href="#"><u>PSY-150 General Psychology</u></a>	<u>3.00</u>
<a href="#"><u>SOC-210 Introduction to Sociology</u></a>	<u>3.00</u>

**Credits: 6**

## Math:

Take one course from the following list.

<a href="#"><u>MAT-143 Quantitative Literacy</u></a>	<u>3.00</u>
<a href="#"><u>MAT-152 Statistical Methods I</u></a>	<u>4.00</u>
<a href="#"><u>MAT-171 Precalculus Algebra</u></a>	<u>4.00</u>

**Credits: 3-4**

## Natural Sciences:

Take one of the following sets.

Set One

<a href="#"><u>AST-111 Descriptive Astronomy</u></a>	<u>3.00</u>
<a href="#"><u>AST-111A Descriptive Astronomy Lab</u></a>	<u>1.00</u>

Set Two:

<a href="#"><u>AST-151 General Astronomy I</u></a>	<u>3.00</u>
<a href="#"><u>AST-151A General Astronomy I Lab</u></a>	<u>1.00</u>

Set Three:

<a href="#"><u>BIO-110 Principles of Biology</u></a>	<u>4.00</u>
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Set Four:

<a href="#"><u>BIO-111 General Biology I</u></a>	<u>4.00</u>
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Set Five:

<a href="#"><u>CHM-151 General Chemistry I</u></a>	<u>4.00</u>
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**Credits: 4**

## Other Required Hours - ART:

Take the following courses.

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ART-121 Two-Dimensional Design	3.00
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ART-131 Drawing I	3.00
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**Credits: 6**

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## Other Required Hours - College Transfer Success:

Take the following courses.

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ACA-122 College Transfer Success	1.00
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**Credits: 1**

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Total Credits To Complete

**32-33**



# Programs

2020-2021

Program details listed below.

[All Programs](#) / Associate in General Education

## Associate in General Education (10300) CIP 24.0199

🕒 Last updated on Sept. 20, 2019, 1:59 p.m.

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.

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### Curriculum Offerings:

SHC - Semester Hour Credits

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[Associate in General Education A10300](#)

[64-66 SHC total](#)



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### Additional Information:

For additional information regarding this program, contact the dean, Wendy Barnhardt, [wendy.barnhardt@rccc.edu](mailto:wendy.barnhardt@rccc.edu).

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate in General Education](#) / A10300

## Associate in General Education A10300

### Associate in General Education (10300) CIP 24.0199

🕒 Last updated on April 21, 2020, 2:17 p.m.

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>ENG-111 Writing and Inquiry.</u>	<u>3.00</u>
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Take one of the following academic related courses.

<u>ACA-115 Success &amp; Study Skills</u>	<u>1.00</u>
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<u>ACA-118 College Study Skills</u>	<u>2.00</u>
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<u>ACA-122 College Transfer Success</u>	<u>1.00</u>
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Take three semester hour credits from the following social/behavioral science courses.

<u>ANT-210 General Anthropology.</u>	<u>3.00</u>
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<u>ANT-220 Cultural Anthropology.</u>	<u>3.00</u>
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<u>ANT-230 Physical Anthropology.</u>	<u>3.00</u>
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<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
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<u>ANT-240 Archaeology.</u>	<u>3.00</u>
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<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
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<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
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<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
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<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
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<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
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<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
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<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
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<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
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<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
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<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
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<u>HIS-131 American History I</u>	<u>3.00</u>
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<u>HIS-132 American History II</u>	<u>3.00</u>
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<u>HIS-163 The American West</u>	<u>3.00</u>
<u>HIS-221 African-American History</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology</u>	<u>3.00</u>
<u>PSY-243 Child Psychology</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality</u>	<u>3.00</u>
<u>PSY-275 Health Psychology</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

Take six semester hour credits from the Other Required Hours list located at the end of this program.

**Credits: 13**

## First Year Spring:

Take three semester hour credits from the following communication courses.

<u>COM-110 Introduction to Communication</u>	<u>3.00</u>
<u>COM-120 Intro to Interpersonal Communication</u>	<u>3.00</u>
<u>COM-140 Introduction to Intercultural Communication</u>	<u>3.00</u>

<u>COM-231 Public Speaking</u>	<u>3.00</u>
<u>ENG-112 Writing and Research in the Disciplines</u>	<u>3.00</u>
<u>ENG-113 Literature-Based Research</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>

Take 3 semester hour credits from the following humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-117 Non-Western Art History</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-171 Digital Design I</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>COM-140 Introduction to Intercultural Communication</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>

<u>HUM-110 Technology and Society.</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

Take 3-4 semester hour credits from the following natural sciences/math courses. If CHM-131 is selected, the accompany lab CHM 131A must also be taken.

<u>AST-111 Descriptive Astronomy.</u>	<u>3.00</u>
<u>AST-151 General Astronomy I</u>	<u>3.00</u>
<u>BIO-110 Principles of Biology.</u>	<u>4.00</u>
<u>BIO-111 General Biology I</u>	<u>4.00</u>
<u>BIO-140 Environmental Biology.</u>	<u>3.00</u>
<u>BIO-163 Basic Anatomy &amp; Physiology.</u>	<u>5.00</u>
<u>BIO-168 Anatomy and Physiology I</u>	<u>4.00</u>
<u>CHM-121 Foundations of Chemistry.</u>	<u>3.00</u>
<u>CHM-131 Introduction to Chemistry.</u>	<u>3.00</u>
<u>CHM-131A Introduction to Chemistry Lab</u>	<u>1.00</u>
<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>MAT-110 Mathematical Measurement and Literacy.</u>	<u>3.00</u>
<u>MAT-121 Algebra/Trigonometry I</u>	<u>3.00</u>
<u>MAT-143 Quantitative Literacy.</u>	<u>3.00</u>
<u>MAT-152 Statistical Methods I</u>	<u>4.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>

Take six semester hour credits from the OTHER REQUIRED HOURS course list located at the end of this program.

**Credits: 15-16**

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## First Year Summer:

Take six semester hour credits from the OTHER REQUIRED HOURS course list located at the end of this program.

**Credits: 6**

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## Second Year Fall:

Take 15 semester hour credits from the OTHER REQUIRED HOURS course list located at the end of this program.

**Credits: 15**

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## Second Year Spring:

Take 15 semester hour credits from the OTHER REQUIRED HOURS course list located at the end of this program.

**Credits: 15**

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## OTHER REQUIRED HOURS:

48 semester hour credits must be taken from the additional other required hours courses. Additional other required hours include additional general education and associate degree level courses. Courses must be at the 110-199 or 210-299 level. A maximum of 7 semester hour credits in health, physical education, college orientation, and/or study skills may be included. These other required hour courses can be selected from any of the preceding courses not chosen for the general education requirement plus any of the 110-199 or 210-299 level courses with the following prefixes: ACA, ACC, AHR, ALT, ANT, ARC, ART, AST, ATR, AUT, BAF, BIO, BPR, BTC, BUS, CCT, CHM, CIS, CIV, CJC, CMT, COM, COS, CSC, CST, CTI, CTS, DBA, DDF, DFT, DRA, ECM, ECO, EDU, EGR, EHS, ELC, ELN, EMS, ENG, EPT, ETR, FIP, FRE, GEO, GIS, GRD, HEA, HIS, HSE, HUM, HYD, INS, INT, ISC, LDD, MAC, MAT, MEC, MED, MKT, MSM, MUS, NET, NOS, NUR, OMT, OST, OTA, PED, PHI, PHY, POL, PSY, PTA, RAD, REF, REL, SEC, SOC, SPA, SST, TRN, WEB, WLD.

**Note:**

WBL 110 may also be selected as part of the Additional Other Required Hours.

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# Total Credits To Complete

**64-66**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Associate in Science

## Associate in Science (10400) CIP 24.0101

🕒 Last updated on Oct. 23, 2019, 1:03 p.m.

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. Academic advisors are available to assist students in selecting courses that best meet students' interests and the requirements of transfer institutions. Because course requirements vary among four-year institutions, students should obtain current catalogs from the schools they plan to attend.

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.

## Curriculum Offerings:

SHC - Semester Hour Credits

[Associate in Science A10400](#)

60-61 SHC total

»

[CCPP College Transfer Pathway to Associate in Science P1042C](#)

35 SHC total

»

## Notes:

For additional information regarding this program, contact the dean, Carol Scherczinger, [carol.scherczinger@rccc.edu](mailto:carol.scherczinger@rccc.edu).

## Faculty Mentors:

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📍 North

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate in Science](#) / A10400

## Associate in Science A10400



Associate in Science (10400) CIP 24.0101

🕒 Last updated on Feb. 21, 2020, 4:13 p.m.






The  symbol denotes a core course that may not be substituted.

### First Year Fall:






Take the following courses.

 <a href="#">ACA-122 College Transfer Success</a>	<u>1.00</u>
 <a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

Take one communication/humanities/fine arts course from the following list. A total of two of these courses from two different disciplines (prefixes) is required to earn this degree.

 <a href="#">ART-111 Art Appreciation</a>	<u>3.00</u>
 <a href="#">ART-114 Art History Survey I</a>	<u>3.00</u>
 <a href="#">ART-115 Art History Survey II</a>	<u>3.00</u>
 <a href="#">COM-120 Intro to Interpersonal Communication</a>	<u>3.00</u>
 <a href="#">COM-231 Public Speaking</a>	<u>3.00</u>
 <a href="#">DRA-111 Theatre Appreciation</a>	<u>3.00</u>
 <a href="#">ENG-231 American Literature I</a>	<u>3.00</u>
 <a href="#">ENG-232 American Literature II</a>	<u>3.00</u>
 <a href="#">ENG-241 British Literature I</a>	<u>3.00</u>
 <a href="#">ENG-242 British Literature II</a>	<u>3.00</u>
 <a href="#">MUS-110 Music Appreciation</a>	<u>3.00</u>
 <a href="#">MUS-112 Introduction to Jazz</a>	<u>3.00</u>
 <a href="#">PHI-240 Introduction to Ethics</a>	<u>3.00</u>

Take one of the following math courses. A total of two of these courses must be taken to earn this degree.

 <a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>
 <a href="#">MAT-172 Precalculus Trigonometry</a>	<u>4.00</u>
 <a href="#">MAT-263 Brief Calculus</a>	<u>4.00</u>
 <a href="#">MAT-271 Calculus I</a>	<u>4.00</u>
 <a href="#">MAT-272 Calculus II</a>	<u>4.00</u>

Select one of the following natural sciences sets. Four SHC will be taken this semester, and the other four SHC will be taken First Year Spring to complete the set. Your courses must be from only one set; you cannot take two courses from two different sets.

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Set One:

<u>BIO-111 General Biology I</u>	<u>4.00</u>
<u>BIO-112 General Biology II</u>	<u>4.00</u>

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Set Two:

<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>CHM-152 General Chemistry II</u>	<u>4.00</u>

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Set Three:

<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>PHY-152 College Physics II</u>	<u>4.00</u>

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Set Four:

<u>PHY-251 General Physics I</u>	<u>4.00</u>
<u>PHY-252 General Physics II</u>	<u>4.00</u>

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Set Five:

<u>AST-151 General Astronomy I</u>	<u>3.00</u>
<u>AST-151A General Astronomy I Lab</u>	<u>1.00</u>
<u>BIO-110 Principles of Biology.</u>	<u>4.00</u>

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Set Six:

<u>AST-151 General Astronomy I</u>	<u>3.00</u>
<u>AST-151A General Astronomy I Lab</u>	<u>1.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>
<u>PHY-110A Conceptual Physics Lab</u>	<u>1.00</u>

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Set Seven:

<u>BIO-110 Principles of Biology.</u>	<u>4.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>
<u>PHY-110A Conceptual Physics Lab</u>	<u>1.00</u>

**Credits: 15**

## First Year Spring:

Take the following courses.

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<input checked="" type="checkbox"/> <a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
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Take one of the math courses from the list above. A total of two of these courses must be taken to earn this degree. This is your second course.

Take one social/behavioral sciences course from the following list. A total of two of these courses from two different disciplines (prefixes) is required to earn this degree.

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<input checked="" type="checkbox"/> <a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">ECO-252 Principles of Macroeconomics</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">HIS-111 World Civilizations I</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">HIS-112 World Civilizations II</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">HIS-131 American History I</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">HIS-132 American History II</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">POL-120 American Government</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">PSY-150 General Psychology</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">SOC-210 Introduction to Sociology</a>	<a href="#">3.00</a>
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Take the second four SHC from the natural sciences set you selected in First Year Fall.

Take 2 semester hour credits (SHC) from the following Additional General Education courses or from any general education courses listed above that are not taken to satisfy the general education requirements.

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<input checked="" type="checkbox"/> <a href="#">ANT-210 General Anthropology</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">ANT-220 Cultural Anthropology</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">ANT-230 Physical Anthropology</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">ANT-230A Physical Anthropology Lab</a>	<a href="#">1.00</a>
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<input checked="" type="checkbox"/> <a href="#">ANT-240 Archaeology</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">AST-152 General Astronomy II</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">AST-152A General Astronomy II Lab</a>	<a href="#">1.00</a>
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<input checked="" type="checkbox"/> <a href="#">BIO-140 Environmental Biology</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">CHM-131 Introduction to Chemistry</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">CHM-131A Introduction to Chemistry Lab</a>	<a href="#">1.00</a>
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<input checked="" type="checkbox"/> <a href="#">CHM-132 Organic and Biochemistry</a>	<a href="#">4.00</a>
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<input checked="" type="checkbox"/> <a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">CIS-115 Intro to Programming &amp; Logic</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">COM-110 Introduction to Communication</a>	<a href="#">3.00</a>
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✓ <u>COM-120 Intro to Interpersonal Communication</u>	3.00
✓ <u>COM-140 Introduction to Intercultural Communication</u>	3.00
✓ <u>DRA-111 Theatre Appreciation</u>	3.00
✓ <u>ECO-151 Survey of Economics</u>	3.00
✓ <u>ENG-113 Literature-Based Research</u>	3.00
✓ <u>ENG-114 Professional Research &amp; Reporting</u>	3.00
✓ <u>ENG-131 Introduction to Literature</u>	3.00
✓ <u>ENG-261 World Literature I</u>	3.00
✓ <u>ENG-262 World Literature II</u>	3.00
✓ <u>FRE-111 Elementary French I</u>	3.00
✓ <u>FRE-112 Elementary French II</u>	3.00
✓ <u>GEO-111 World Regional Geography.</u>	3.00
✓ <u>GEO-112 Cultural Geography.</u>	3.00
✓ <u>GEO-130 General Physical Geography.</u>	3.00
✓ <u>HIS-112 World Civilizations II</u>	3.00
✓ <u>HUM-110 Technology and Society.</u>	3.00
✓ <u>HUM-115 Critical Thinking</u>	3.00
✓ <u>HUM-120 Cultural Studies</u>	3.00
✓ <u>HUM-122 Southern Culture</u>	3.00
✓ <u>HUM-130 Myth in Human Culture</u>	3.00
✓ <u>MAT-143 Quantitative Literacy.</u>	3.00
✓ <u>MAT-152 Statistical Methods I</u>	4.00
✓ <u>MAT-273 Calculus III</u>	4.00
✓ <u>MUS-210 History of Rock Music</u>	3.00
✓ <u>PHI-230 Introduction to Logic</u>	3.00
✓ <u>POL-220 International Relations</u>	3.00
✓ <u>PSY-237 Social Psychology.</u>	3.00
✓ <u>PSY-239 Psychology of Personality.</u>	3.00
✓ <u>PSY-241 Developmental Psychology.</u>	3.00
✓ <u>PSY-281 Abnormal Psychology.</u>	3.00
✓ <u>REL-110 World Religions</u>	3.00
✓ <u>REL-211 Introduction to Old Testament</u>	3.00
✓ <u>REL-212 Introduction to New Testament</u>	3.00
✓ <u>SOC-213 Sociology of the Family.</u>	3.00
✓ <u>SOC-220 Social Problems</u>	3.00
✓ <u>SOC-230 Race and Ethnic Relations</u>	3.00
✓ <u>SOC-240 Social Psychology.</u>	3.00



✓ <a href="#">SPA-111 Elementary Spanish I</a>	<a href="#">3.00</a>
✓ <a href="#">SPA-112 Elementary Spanish II</a>	<a href="#">3.00</a>
✓ <a href="#">SPA-211 Intermediate Spanish I</a>	<a href="#">3.00</a>
✓ <a href="#">SPA-212 Intermediate Spanish II</a>	<a href="#">3.00</a>

**Credits: 16**

## Second Year Fall:

Take one communication/humanities/fine arts course from the list above. A total of two of these courses from two different disciplines (prefixes) is required to earn this degree. This is your second course.

Take one social/behavioral sciences course from the list above. A total of two of these courses from two different disciplines (prefixes) is required to earn this degree. This is your second course.

Take 3 semester hour credits (SHC) from the Additional General Education courses shown above or from any general education courses listed above that are not taken to satisfy the general education requirements.

Take 6 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

## Second Year Spring:

Take 6 semester hour credits (SHC) from the Additional General Education courses shown above or from any general education courses listed above that are not taken to satisfy the general education requirements.

Take 8 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 14**

## MAJOR ELECTIVES/Other Required Hours Course List:

Take 14 semester hour credits (SHC) from the following courses or from any of the general education courses listed above not taken to satisfy the general education requirement or the additional general education hours requirement. WBL-111 does not count toward graduation or in the 60 hour minimum for this degree since it is not a transfer course. Students selecting WBL-111 will be required to complete 15 SHC for Other Required Hours for a minimum of 61 SHC to earn the Associate in Science degree.

<a href="#">ACC-120 Principles of Financial Accounting</a>	<a href="#">4.00</a>
<a href="#">ACC-121 Principles of Managerial Accounting</a>	<a href="#">4.00</a>
<a href="#">ANT-240A Archaeology Field Lab</a>	<a href="#">2.00</a>
<a href="#">ART-121 Two-Dimensional Design</a>	<a href="#">3.00</a>
<a href="#">ART-122 Three-Dimensional Design</a>	<a href="#">3.00</a>
<a href="#">ART-131 Drawing I</a>	<a href="#">3.00</a>
<a href="#">ART-132 Drawing II</a>	<a href="#">3.00</a>
<a href="#">ART-135 Figure Drawing I</a>	<a href="#">3.00</a>

<u>ART-212 Gallery Assistantship I</u>	<u>3.00</u>
<u>ART-214 Portfolio and Resume</u>	<u>1.00</u>
<u>ART-231 Printmaking I</u>	<u>3.00</u>
<u>ART-235 Figure Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-264 Digital Photography I</u>	<u>3.00</u>
<u>ART-265 Digital Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-267 Videography II</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-282 Sculpture II</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>BIO-163 Basic Anatomy &amp; Physiology</u>	<u>5.00</u>
<u>BIO-168 Anatomy and Physiology I</u>	<u>4.00</u>
<u>BIO-169 Anatomy and Physiology II</u>	<u>4.00</u>
<u>BIO-250 Genetics</u>	<u>4.00</u>
<u>BIO-275 Microbiology</u>	<u>4.00</u>
<u>BUS-110 Introduction to Business</u>	<u>3.00</u>
<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-137 Principles of Management</u>	<u>3.00</u>
<u>CHM-251 Organic Chemistry I</u>	<u>4.00</u>
<u>CHM-252 Organic Chemistry II</u>	<u>4.00</u>
<u>CJC-111 Introduction to Criminal Justice</u>	<u>3.00</u>
<u>CJC-121 Law Enforcement Operations</u>	<u>3.00</u>
<u>CJC-141 Corrections</u>	<u>3.00</u>
<u>COM-150 Introduction to Mass Communication</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>
<u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-126 Creative Writing II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>

<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HEA-110 Personal Health/Wellness</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MAT-280 Linear Algebra</u>	<u>3.00</u>
<u>MAT-285 Differential Equations</u>	<u>3.00</u>
<u>MUS-131 Chorus I</u>	<u>1.00</u>
<u>MUS-132 Chorus II</u>	<u>1.00</u>
<u>PED-110 Fit and Well for Life</u>	<u>2.00</u>
<u>PED-111 Physical Fitness I</u>	<u>1.00</u>
<u>PED-117 Weight Training I</u>	<u>1.00</u>
<u>PED-118 Weight Training II</u>	<u>1.00</u>
<u>PED-121 Walk, Jog, Run</u>	<u>1.00</u>
<u>PED-122 Yoga I</u>	<u>1.00</u>
<u>PED-217 Pilates I</u>	<u>1.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-215 Positive Psychology</u>	<u>3.00</u>
<u>PSY-231 Forensic Psychology</u>	<u>3.00</u>
<u>PSY-243 Child Psychology</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality</u>	<u>3.00</u>
<u>PSY-275 Health Psychology</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-245 Drugs and Society</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>

**Additional Information:**

**Work-Based Learning (WBL)**

WBL-111 does not count toward graduation or in the 60 hour minimum for this degree since it is not a transfer course. Students selecting WBL-111 will be required to complete 15 SHC for Additional Other Required Hours for a minimum of 61 SHC to earn the Associate in Science degree.

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## Total Credits To Complete

**60-61**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Associate in Science](#) / P1042C

## CCPP College Transfer Pathway to Associate in Science P1042C

### Associate in Science (10400) CIP 24.0101

🕒 Last updated on March 17, 2020, 3:56 p.m.

## Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

### English Composition:

Take the following courses.

<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
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<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
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**Credits: 6**

### Humanities/Fine Arts/Communication:

Take two courses from the following list from at least two different subjects (prefixes).

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
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<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
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<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
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<a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>
---	----------------------

<a href="#">ENG-231 American Literature I</a>	<a href="#">3.00</a>
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<a href="#">ENG-232 American Literature II</a>	<a href="#">3.00</a>
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<a href="#">ENG-241 British Literature I</a>	<a href="#">3.00</a>
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<a href="#">ENG-242 British Literature II</a>	<a href="#">3.00</a>
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<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
--	----------------------

<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
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<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>
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**Credits: 6**

### Social/Behavioral Sciences:

Take two courses from the following list from at least two different subjects (prefixes).

<a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
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<a href="#">ECO-252 Principles of Macroeconomics</a>	<a href="#">3.00</a>
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<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>

**Credits: 6**

## Math:

Take two courses from the following list.

<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-263 Brief Calculus</u>	<u>4.00</u>
<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MAT-272 Calculus II</u>	<u>4.00</u>

**Credits: 8**

## Natural Sciences:

Take one of the following sets.

Set One:

<u>BIO-111 General Biology I</u>	<u>4.00</u>
<u>BIO-112 General Biology II</u>	<u>4.00</u>

Set Two:

<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>CHM-152 General Chemistry II</u>	<u>4.00</u>

Set Three:

<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>PHY-152 College Physics II</u>	<u>4.00</u>

Set Four:

<u>PHY-251 General Physics I</u>	<u>4.00</u>
<u>PHY-252 General Physics II</u>	<u>4.00</u>

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Set Five:

<u><a href="#">AST-151 General Astronomy I</a></u>	<u>3.00</u>
<u><a href="#">AST-151A General Astronomy I Lab</a></u>	<u>1.00</u>
<u><a href="#">BIO-110 Principles of Biology</a></u>	<u>4.00</u>

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Set Six:

<u><a href="#">BIO-110 Principles of Biology</a></u>	<u>4.00</u>
<u><a href="#">PHY-110 Conceptual Physics</a></u>	<u>3.00</u>
<u><a href="#">PHY-110A Conceptual Physics Lab</a></u>	<u>1.00</u>

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**Credits: 8**

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### Other Required Hours - College Transfer Success:

Take the following courses.

<u><a href="#">ACA-122 College Transfer Success</a></u>	<u>1.00</u>
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**Credits: 1**

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Total Credits To Complete

**35**



# Programs

2020-2021

Program details listed below.

[All Programs](#) / Automotive Light-Duty Diesel Technology

## Automotive Light-Duty Diesel Technology (60430) CIP 47.0605

🕒 Last updated on Sept. 24, 2019, 10:39 a.m.

This curriculum prepares individuals for employment as entry-level transportation service technicians. The program prepares individuals to apply technical knowledge and skills to diagnose, adjust, repair, or overhaul light duty diesel vehicles under one ton classification.

Coursework includes instruction in electrical systems, diesel-electric drive, engine performance, engine repair, emission systems, and all types of diesel engines related to the light duty diesel vehicle.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to the programs of study, and to enter careers as entry-level technicians in the transportation industry working primarily with automobile diesel engines.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Automotive Light-Duty Diesel Technology Diploma D60430](#) >>

[37-39 SHC total](#)

[Automotive Light-Duty Technology Basic Certificate C60430BA](#) >>

[14 SHC total](#)

### Additional Information:

Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the automotive light-duty diesel technology program chair or student services.

**ACADEMIC PLANS:** [D60430 Diploma](#), [C60430 Certificate](#)

### Notes:

For additional information regarding this program, contact the chair, Wade Vernon, [wade.vernon@rccc.edu](mailto:wade.vernon@rccc.edu).

### Faculty Mentors:

Wade Vernon

Chair

✉ [wade.vernon@rccc.edu](mailto:wade.vernon@rccc.edu)

📞 [704-216-3924](tel:704-216-3924)

📍 North

Carl Smith

Faculty

✉ [carl.smith@rccc.edu](mailto:carl.smith@rccc.edu)

📞 [704-216-3925](tel:704-216-3925)

📍 North

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Automotive Light-Duty Diesel Technology](#) / D60430

## Automotive Light-Duty Diesel Technology Diploma D60430

Automotive Light-Duty Diesel Technology (60430) CIP 47.0605

🕒 Last updated on Nov. 12, 2019, 3:11 p.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">LDD-112 Intro Light-Duty Diesel</a>	<a href="#">3.00</a>
 <a href="#">TRN-110 Introduction to Transport Technology.</a>	<a href="#">2.00</a>
 <a href="#">TRN-120 Basic Transportation Electricity.</a>	<a href="#">5.00</a>
<a href="#">TRN-170 Pc Skills for Transportation</a>	<a href="#">2.00</a>

Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<a href="#">ANT-210 General Anthropology.</a>	<a href="#">3.00</a>
<a href="#">ANT-220 Cultural Anthropology.</a>	<a href="#">3.00</a>
<a href="#">ANT-230 Physical Anthropology.</a>	<a href="#">3.00</a>
<a href="#">ANT-230A Physical Anthropology Lab</a>	<a href="#">1.00</a>
<a href="#">ANT-240 Archaeology.</a>	<a href="#">3.00</a>
<a href="#">ANT-240A Archaeology Field Lab</a>	<a href="#">2.00</a>
<a href="#">ECO-151 Survey of Economics</a>	<a href="#">3.00</a>
<a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
<a href="#">ECO-252 Principles of Macroeconomics</a>	<a href="#">3.00</a>
<a href="#">GEO-111 World Regional Geography.</a>	<a href="#">3.00</a>
<a href="#">GEO-112 Cultural Geography.</a>	<a href="#">3.00</a>
<a href="#">GEO-130 General Physical Geography.</a>	<a href="#">3.00</a>
<a href="#">HIS-111 World Civilizations I</a>	<a href="#">3.00</a>
<a href="#">HIS-112 World Civilizations II</a>	<a href="#">3.00</a>
<a href="#">HIS-122 Western Civilization II</a>	<a href="#">3.00</a>
<a href="#">HIS-131 American History I</a>	<a href="#">3.00</a>
<a href="#">HIS-132 American History II</a>	<a href="#">3.00</a>
<a href="#">HIS-163 The World Since 1945</a>	<a href="#">3.00</a>

<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>
<u>PSY-243 Child Psychology.</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology.</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality.</u>	<u>3.00</u>
<u>PSY-275 Health Psychology.</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology.</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family.</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology.</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

**Credits: 15**

## First Year Spring:

Take the following courses.

✓ <u>LDD-116 Diesel Electric-Drive</u>	<u>4.00</u>
✓ <u>LDD-181 LDD Fuel Systems</u>	<u>4.00</u>
✓ <u>LDD-183 Air, Exhaust, Emissions</u>	<u>4.00</u>
<u>ENG-111 Writing and Inquiry.</u>	<u>3.00</u>

**Credits: 15**

## First Year Summer:

Take these courses.

<u>LDD-284 LDD Test and Diagnosis</u>	<u>3.00</u>
<u>TRN-130 Intro to Sustainable Transportation</u>	<u>3.00</u>

Take one of the following work-based learning courses.

<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>

**Credits: 7-9**

## Additional Information:

Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the automotive light-duty diesel technology program chair or student services.

# Total Credits To Complete

**37-39**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Automotive Light-Duty Diesel Technology](#) / D60430BA

## Automotive Light-Duty Technology Basic Certificate C60430BA

Automotive Light-Duty Diesel Technology (60430) CIP 47.0605



 Last updated on Sept. 26, 2019, 3:17 p.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">TRN-110 Introduction to Transport Technology</a>	<a href="#">2.00</a>
 <a href="#">TRN-120 Basic Transportation Electricity</a>	<a href="#">5.00</a>
<a href="#">LDD-112 Intro Light-Duty Diesel</a>	<a href="#">3.00</a>

**Credits: 10**

### First Year Spring:

Take the following course.

<a href="#">LDD-181 LDD Fuel Systems</a>	<a href="#">4.00</a>
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**Credits: 4**

### Additional Information:

Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the automotive systems technology program chair or student services.

## Total Credits To Complete

**14**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Automotive Systems Technology

## Automotive Systems Technology

(60160) CIP 47.0604

🕒 Last updated on Sept. 27, 2019, 10:48 a.m.

The automotive systems technology curriculum prepares individuals for employment as automotive service technicians. It provides an introduction to automotive careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

Coursework 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. Instruction covers rake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmission and drive trains, and heating and air condition systems. Students are prepared to apply technical knowledge and skills to repair, service, and maintain all types of automobiles.

Graduates should be prepared to take professional licensure exams and enter careers as entry-level technicians in the transportation industry.

## Curriculum Offerings:

SHC - Semester Hour Credits

[Automotive Systems Technology Associate in Applied Science Degree A60160](#) »

[67 SHC total](#)

[Automotive Systems Technology Diploma D60160](#) »

[37 SHC total](#)

[CCPP Automotive Systems Technology Certificate C60160PB](#) »

[16 SHC total](#)

[Automotive Systems Technology Chassis Certificate C60160CH](#) »

[15 SHC total](#)

[Automotive Systems Technology Management Certificate C60160AM](#) »

[15 SHC total](#)

## Additional Information:

Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the automotive systems technology chair or student services.

### ACADEMIC PLANS:

[A60160 AAS](#), [D60160 Diploma](#), [C60160CH Chassis Certificate](#), [C60160AM Management Certificate](#)

## Notes:

For additional information regarding this program, contact the chair, Wade Vernon, [wade.vernon@rccc.edu](mailto:wade.vernon@rccc.edu).

## Faculty Mentors:

Wade Vernon

*Chair*

Carl Smith

*Faculty*

✉ [wade.vernon@rccc.edu](mailto:wade.vernon@rccc.edu)

☎ [704-216-3924](tel:704-216-3924)

📍 North

Nathan Snyder

*Faculty*

✉ [nathan.snyder@rccc.edu](mailto:nathan.snyder@rccc.edu)

☎ [704-216-3904](tel:704-216-3904)

📍 North

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📍 North

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*Faculty*

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☎ [704-216-3902](tel:704-216-3902)

📍 North



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Automotive Systems Technology](#) / A60160

## Automotive Systems Technology Associate in Applied Science Degree A60160

Automotive Systems Technology (60160) CIP 47.0604



🕒 Last updated on Jan. 10, 2020, 3:20 p.m.

The following is a suggested degree map for completing this degree in six semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">TRN-110 Introduction to Transport Technology</a>	<a href="#">2.00</a>
 <a href="#">TRN-120 Basic Transportation Electricity</a>	<a href="#">5.00</a>
<a href="#">AUT-116 Engine Repair</a>	<a href="#">3.00</a>
<a href="#">AUT-116A Engine Repair Lab</a>	<a href="#">1.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">TRN-170 Pc Skills for Transportation</a>	<a href="#">2.00</a>

**Credits: 16**

### First Year Spring:

Take the following courses.

 <a href="#">AUT-151 Brake Systems</a>	<a href="#">3.00</a>
 <a href="#">AUT-181 Engine Performance 1</a>	<a href="#">3.00</a>
<a href="#">AUT-151A Brakes Systems Lab</a>	<a href="#">1.00</a>
<a href="#">AUT-181A Engine Performance 1 Lab</a>	<a href="#">1.00</a>
<a href="#">MAT-110 Mathematical Measurement and Literacy</a>	<a href="#">3.00</a>
<a href="#">WLD-112 Basic Welding Processes</a>	<a href="#">2.00</a>

Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<a href="#">ANT-210 General Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-220 Cultural Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-230 Physical Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-230A Physical Anthropology Lab</a>	<a href="#">1.00</a>
<a href="#">ANT-240 Archaeology</a>	<a href="#">3.00</a>

<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>
<u>PSY-243 Child Psychology.</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology.</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality.</u>	<u>3.00</u>
<u>PSY-275 Health Psychology.</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology.</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family.</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>

<u>SOC-240 Social Psychology</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

**Credits: 16**

## First Year Summer:

Take the following courses.

<input checked="" type="checkbox"/> <u>AUT-141 Suspension &amp; Steering Systems</u>	<u>3.00</u>
<input checked="" type="checkbox"/> <u>TRN-140 Transportation Climate Control</u>	<u>2.00</u>
<u>AUT-141A Suspension &amp; Steering Lab</u>	<u>1.00</u>
<u>TRN-140A Transportation Climate Control Lab</u>	<u>2.00</u>

**Credits: 8**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <u>AUT-183 Engine Performance 2</u>	<u>4.00</u>
<u>AUT-163 Advanced Automotive Electricity</u>	<u>3.00</u>
<u>AUT-163A Advanced Automotive Electricity Lab</u>	<u>1.00</u>
<u>AUT-231 Manual Transmissions/Transaxles/DriveTrains</u>	<u>3.00</u>
<u>AUT-231A Manual Transmissions/Transaxles/DriveTrains Lab</u>	<u>1.00</u>

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>

<a href="#"><u>DRA-111 Theatre Appreciation</u></a>	<u>3.00</u>
<a href="#"><u>DRA-126 Storytelling</u></a>	<u>3.00</u>
<a href="#"><u>ENG-125 Creative Writing I</u></a>	<u>3.00</u>
<a href="#"><u>HUM-110 Technology and Society</u></a>	<u>3.00</u>
<a href="#"><u>HUM-115 Critical Thinking</u></a>	<u>3.00</u>
<a href="#"><u>HUM-120 Cultural Studies</u></a>	<u>3.00</u>
<a href="#"><u>HUM-122 Southern Culture</u></a>	<u>3.00</u>
<a href="#"><u>HUM-130 Myth in Human Culture</u></a>	<u>3.00</u>
<a href="#"><u>HUM-170 The Holocaust</u></a>	<u>3.00</u>
<a href="#"><u>MUS-110 Music Appreciation</u></a>	<u>3.00</u>
<a href="#"><u>MUS-112 Introduction to Jazz</u></a>	<u>3.00</u>
<a href="#"><u>MUS-210 History of Rock Music</u></a>	<u>3.00</u>
<a href="#"><u>PHI-230 Introduction to Logic</u></a>	<u>3.00</u>
<a href="#"><u>PHI-240 Introduction to Ethics</u></a>	<u>3.00</u>
<a href="#"><u>REL-110 World Religions</u></a>	<u>3.00</u>
<a href="#"><u>REL-211 Introduction to Old Testament</u></a>	<u>3.00</u>
<a href="#"><u>REL-212 Introduction to New Testament</u></a>	<u>3.00</u>

**Credits: 15**

## Second Year Spring:

Take the following courses.

<a href="#"><u>AUT-221 Automatic Transmissions/Transaxles</u></a>	<u>3.00</u>
<a href="#"><u>AUT-221A Automatic Transmissions/Transaxles Lab</u></a>	<u>1.00</u>
<a href="#"><u>COM-231 Public Speaking</u></a>	<u>3.00</u>
<a href="#"><u>TRN-130 Intro to Sustainable Transportation</u></a>	<u>3.00</u>

Take two SHC from the following MAJOR ELECTIVES courses. Students may take either AUT 113 or WBL 112 in the second year summer term. Students may choose to take WBL 111 and WBL 121 instead of taking AUT 113 or WBL 112. WBL can be taken at any time in the curriculum to equal two credit hours total.

<a href="#"><u>AUT-113 Automotive Servicing I</u></a>	<u>2.00</u>
<a href="#"><u>WBL-111 Work-Based Learning I</u></a>	<u>1.00</u>
<a href="#"><u>WBL-112 Work-Based Learning I</u></a>	<u>2.00</u>
<a href="#"><u>WBL-121 Work-Based Learning II</u></a>	<u>1.00</u>

**Credits: 12**

**Note:**

Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the Automotive Systems Technology program Chair or Student Services.

## Additional Information:

# Additional Information

Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the Automotive Systems Technology program Chair or Student Services.

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# Total Credits To Complete

67

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Automotive Systems Technology](#) / D60160

## Automotive Systems Technology Diploma D60160

Automotive Systems Technology (60160) CIP 47.0604



🕒 Last updated on Jan. 10, 2020, 3:26 p.m.

The following is a suggested degree map for completing this diploma in four semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">TRN-110 Introduction to Transport Technology</a>	<a href="#">2.00</a>
 <a href="#">TRN-120 Basic Transportation Electricity</a>	<a href="#">5.00</a>
<a href="#">AUT-116 Engine Repair</a>	<a href="#">3.00</a>
<a href="#">AUT-116A Engine Repair Lab</a>	<a href="#">1.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">TRN-170 Pc Skills for Transportation</a>	<a href="#">2.00</a>

**Credits: 16**

### First Year Spring:

Take the following courses.

 <a href="#">AUT-151 Brake Systems</a>	<a href="#">3.00</a>
 <a href="#">AUT-181 Engine Performance 1</a>	<a href="#">3.00</a>
<a href="#">AUT-151A Brakes Systems Lab</a>	<a href="#">1.00</a>
<a href="#">AUT-181A Engine Performance 1 Lab</a>	<a href="#">1.00</a>
<a href="#">WLD-112 Basic Welding Processes</a>	<a href="#">2.00</a>

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
<a href="#">ART-121 Two-Dimensional Design</a>	<a href="#">3.00</a>
<a href="#">ART-131 Drawing I</a>	<a href="#">3.00</a>
<a href="#">ART-132 Drawing II</a>	<a href="#">3.00</a>
<a href="#">ART-240 Painting I</a>	<a href="#">3.00</a>

<a href="#">ART-241 Painting II</a>	<a href="#">3.00</a>
<a href="#">ART-244 Watercolor</a>	<a href="#">3.00</a>
<a href="#">ART-261 Photography I</a>	<a href="#">3.00</a>
<a href="#">ART-262 Photography II</a>	<a href="#">3.00</a>
<a href="#">ART-266 Videography I</a>	<a href="#">3.00</a>
<a href="#">ART-281 Sculpture I</a>	<a href="#">3.00</a>
<a href="#">ART-283 Ceramics I</a>	<a href="#">3.00</a>
<a href="#">ART-288 Studio</a>	<a href="#">3.00</a>
<a href="#">DRA-111 Theatre Appreciation</a>	<a href="#">3.00</a>
<a href="#">DRA-126 Storytelling</a>	<a href="#">3.00</a>
<a href="#">ENG-125 Creative Writing I</a>	<a href="#">3.00</a>
<a href="#">HUM-110 Technology and Society</a>	<a href="#">3.00</a>
<a href="#">HUM-115 Critical Thinking</a>	<a href="#">3.00</a>
<a href="#">HUM-120 Cultural Studies</a>	<a href="#">3.00</a>
<a href="#">HUM-122 Southern Culture</a>	<a href="#">3.00</a>
<a href="#">HUM-130 Myth in Human Culture</a>	<a href="#">3.00</a>
<a href="#">HUM-170 The Holocaust</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
<a href="#">MUS-210 History of Rock Music</a>	<a href="#">3.00</a>
<a href="#">PHI-230 Introduction to Logic</a>	<a href="#">3.00</a>
<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>
<a href="#">REL-110 World Religions</a>	<a href="#">3.00</a>
<a href="#">REL-211 Introduction to Old Testament</a>	<a href="#">3.00</a>
<a href="#">REL-212 Introduction to New Testament</a>	<a href="#">3.00</a>

**Credits: 13**

## First Year Summer:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">AUT-141 Suspension &amp; Steering Systems</a>	<a href="#">3.00</a>
<a href="#">AUT-141A Suspension &amp; Steering Lab</a>	<a href="#">1.00</a>
<a href="#">TRN-140 Transportation Climate Control</a>	<a href="#">2.00</a>
<a href="#">TRN-140A Transportation Climate Control Lab</a>	<a href="#">2.00</a>

**Credits: 8**

## Additional Information:



Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the automotive systems technology program chair or student services.

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# Total Credits To Complete

37

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Automotive Systems Technology](#) / C60160CH

## Automotive Systems Technology Chassis Certificate C60160CH

Automotive Systems Technology (60160) CIP 47.0604



🕒 Last updated on Sept. 26, 2019, 3:09 p.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">TRN-110 Introduction to Transport Technology</a>	<u>2.00</u>
 <a href="#">TRN-120 Basic Transportation Electricity</a>	<u>5.00</u>

**Credits: 7**

### First Year Spring:


Take the following courses.

 <a href="#">AUT-151 Brake Systems</a>	<u>3.00</u>
<a href="#">AUT-151A Brakes Systems Lab</a>	<u>1.00</u>

**Credits: 4**

### First Year Summer:

Take the following courses.

 <a href="#">AUT-141 Suspension &amp; Steering Systems</a>	<u>3.00</u>
<a href="#">AUT-141A Suspension &amp; Steering Lab</a>	<u>1.00</u>

**Credits: 4**

### Additional Information:

Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the automotive systems technology program chair or student services.

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Automotive Systems Technology](#) / C60160AM

## Automotive Systems Technology Management Certificate C60160AM Automotive Systems Technology (60160) CIP 47.0604

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time)

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>ACC-115 College Accounting</u>	<u>4.00</u>
<u>BUS-137 Principles of Management</u>	<u>3.00</u>
<u>TRN-110 Introduction to Transport Technology.</u>	<u>2.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-121 Business Math</u>	<u>3.00</u>

**Credits: 6**

# Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Automotive Systems Technology](#) / C60160PB

## CCPP Automotive Systems Technology Certificate C60160PB

Automotive Systems Technology (60160) CIP 47.0604

🕒 Last updated on June 17, 2020, 6:49 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">AUT-141 Suspension &amp; Steering Systems</a>	<u>3.00</u>
<a href="#">AUT-141A Suspension &amp; Steering Lab</a>	<u>1.00</u>
<a href="#">AUT-151 Brake Systems</a>	<u>3.00</u>
<a href="#">AUT-151A Brakes Systems Lab</a>	<u>1.00</u>
<a href="#">TRN-110 Introduction to Transport Technology</a>	<u>2.00</u>
<a href="#">TRN-120 Basic Transportation Electricity</a>	<u>5.00</u>
<a href="#">WBL-110 World of Work</a>	<u>1.00</u>

**Credits: 16**

# Total Credits To Complete

**16**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Basic Law Enforcement Training

## Basic Law Enforcement Training (55120) CIP 43.0107

🕒 Last updated on Sept. 20, 2019, 2:01 p.m.

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

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

Students must successfully complete and pass all units of study mandated by the North Carolina Criminal Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission to receive a certificate. Students must also pass the state comprehensive written examination to be awarded the C55120 certificate.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Basic Law Enforcement Training Certificate C55120](#)

20 SHC total



### Additional Information:

[BLET Admissions Requirements](#)

### Notes:

For additional information regarding this program, contact the director, Chris Nesbitt, [chris.nesbitt@rccc.edu](mailto:chris.nesbitt@rccc.edu).

### Faculty Mentors:

Chris Nesbitt

Director

✉ [chris.nesbitt@rccc.edu](mailto:chris.nesbitt@rccc.edu)

📞 [704-216-3756](tel:704-216-3756)

📍 North

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Basic Law Enforcement Training](#) / C55120

## Basic Law Enforcement Training Certificate C55120

Basic Law Enforcement Training (55120) CIP 43.0107

🕒 Last updated on Sept. 6, 2019, 9:03 a.m.

The 🎯 symbol denotes a core course that may not be substituted.

Take the following course.

[CJC-110 Basic Law Enforcement BLET](#)

20.00

**Credits: 20**

### Additional Information:

**Please note that students must also pass the state comprehensive written examination to be awarded the C55120 BLET certificate.**

# Total Credits To Complete

**20**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Biotechnology

## Biotechnology (20100)

🕒 Last updated on June 30, 2020, 2 p.m.

The Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological and chemical technology. Course work emphasizes biology, chemistry, mathematics, and technical communications. The curriculum objectives are designed to prepare graduates to serve in three distinct capacities: research assistant to a biologist or chemist, laboratory technician/instrumentation technician, and quality control/quality assurance technician. Graduates should be qualified for employment in various areas of industry and government, including research and development, manufacturing, sales, and customer service.

The Biotechnology program focuses on the application of the biological sciences, biochemistry, and genetics to the preparation of new and enhanced agricultural, environmental, clinical, and industrial products, including the commercial exploitation of microbes, plants, and animals. Potential course work includes instruction in general biology, general and organic chemistry, physics, biochemistry, molecular biology, immunology, microbiology, genetics, and cellular biology.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Biotechnology Diploma D20100](#)

38-39 SHC total

»

### Notes:

For additional information regarding this program, please contact the chair, Chelsea Edward, [chelsea.edward@rccc.edu](mailto:chelsea.edward@rccc.edu).

### Faculty Mentors:

Chelsea Edward

*Chair*

✉ [chelsea.edward@rccc.edu](mailto:chelsea.edward@rccc.edu)

📞 [704-216-7152](tel:704-216-7152)

📍 NCRC

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Biotechnology](#) / D20100

## Biotechnology Diploma D20100

Biotechnology (20100) CIP 26.1201

 Last updated on May 27, 2020, 10:39 a.m.

The following is a suggested degree map for completing this diploma in four semesters. Some student's degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses

 <a href="#">BIO-111 General Biology I</a>	<u>4.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

**Credits: 7**

### First Year Spring:

Take the following courses.

 <a href="#">BIO-112 General Biology II</a>	<u>4.00</u>
 <a href="#">BIO-275 Microbiology</a>	<u>4.00</u>

Take one of the following math courses.

<a href="#">MAT-152 Statistical Methods I</a>	<u>4.00</u>
<a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>

**Credits: 12**

### First Year Summer:

Take BIO 140 now or CHM 152 during Second Year Spring. This diploma requires either BIO 140 or CHM 152, not both.

<a href="#">BIO-140 Environmental Biology</a>	<u>3.00</u>
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Take one of the following communication courses.

<a href="#">COM-120 Intro to Interpersonal Communication</a>	<u>3.00</u>
<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>

**Credits: 3 or 6**

### Second Year Fall:



Take the following courses.

<input checked="" type="checkbox"/> <a href="#">BTC-285 Cell Culture</a>	<u>3.00</u>
<a href="#">BIO-250 Genetics</a>	<u>4.00</u>
<a href="#">CHM-151 General Chemistry I</a>	<u>4.00</u>

**Credits: 11**

## Second Year Spring:

Take the following courses. However, if you took BIO 140 during Summer Term, you do not need to take CHM 152. This diploma requires either BIO 140 or CHM 152, not both.

<input checked="" type="checkbox"/> <a href="#">BTC-288 Biotechnology Lab Experience</a>	<u>2.00</u>
<a href="#">CHM-152 General Chemistry II</a>	<u>4.00</u>

**Credits: 2 or 6**

# Total Credits To Complete

**38-39**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Business Administration

## Business Administration

(25120) CIP 52.0201

🕒 Last updated on Feb. 13, 2020, 10:26 a.m.

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.

## Curriculum Offerings:

SHC - Semester Hour Credits

[Business Administration Marketing Associate in Applied Science Degree A25120MK](#) »

[67-68 SHC total](#)

[Business Administration General Associate in Applied Science Degree A25120BA](#) »

[66-67 SHC total](#)

[Business Administration Human Resources Management Associate in Applied Science Degree A25120HR](#) »

[66-67 SHC total](#)

[Business Administration Diploma D25120](#) »

[38 SHC total](#)

[Business Administration Customer Service Certificate C25120CS](#) »

[18 SHC total](#)

[Business Administration Computing Certificate C25120BC](#) »

[15 SHC total](#)

[Business Administration Human Resources Certificate C25120HR](#) »

[15 SHC total](#)

[Business Administration Management Certificate C25120BM](#) »

[15 SHC total](#)

[Business Administration Entrepreneurship Certificate C25120EN](#) »

[13 SHC total](#)

## Additional Information:










### ACADEMIC PLANS:

[A25120BA General AAS](#), [A25120HR Human Resources Management AAS](#), [A25120MK Marketing AAS](#), [D25120 Diploma](#), [C25120CS Customer Service Certificate](#), [C25120HR Human Resources Certificate](#), [C25120BM Management Certificate](#), [C25120BC Computing Certificate](#), [C25120EN Entrepreneurship Certificate](#)

## Notes:

For additional information regarding this program, contact the chair, Garland Fulp, [garland.fulp@rccc.edu](mailto:garland.fulp@rccc.edu).

## Faculty Mentors:

Garland Fulp <i>Chair</i>	Keith Moore <i>Faculty</i>
 <a href="mailto:garland.fulp@rccc.edu">garland.fulp@rccc.edu</a>	 <a href="mailto:keith.moore@rccc.edu">keith.moore@rccc.edu</a>
 <a href="tel:704-216-3770">704-216-3770</a>	 <a href="tel:704-216-7246">704-216-7246</a>
 North	 North
Oscar Barzuna <i>Faculty</i>	
 <a href="mailto:oscar.barzuna@rccc.edu">oscar.barzuna@rccc.edu</a>	
 N/A	
 North Campus	

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Business Administration](#) / A25120MK

## Business Administration Marketing Associate in Applied Science Degree A25120MK

Business Administration (25120) CIP 52.0201

🕒 Last updated on Jan. 13, 2020, 9:52 a.m.

The following is a suggested degree map for completing this degree in four semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">ACC-120 Principles of Financial Accounting</a>	4.00
<input checked="" type="checkbox"/> <a href="#">BUS-110 Introduction to Business</a>	3.00
<a href="#">ENG-111 Writing and Inquiry</a>	3.00

Take one of the following marketing courses.

<input checked="" type="checkbox"/> <a href="#">MKT-123 Fundamentals of Selling</a>	3.00
<input checked="" type="checkbox"/> <a href="#">MKT-223 Customer Service</a>	3.00

Take one of the following math courses.

<a href="#">MAT-143 Quantitative Literacy</a>	3.00
<a href="#">MAT-152 Statistical Methods I</a>	4.00
<a href="#">MAT-171 Precalculus Algebra</a>	4.00

Take one of the following ACA courses.

<a href="#">ACA-115 Success &amp; Study Skills</a>	1.00
<a href="#">ACA-122 College Transfer Success</a>	1.00

**Credits: 17-18**

### First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">BUS-115 Business Law I</a>	3.00
<input checked="" type="checkbox"/> <a href="#">CIS-110 Introduction to Computers</a>	3.00
<input checked="" type="checkbox"/> <a href="#">MKT-120 Principles of Marketing</a>	3.00

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Take one of the following economics courses.

<input checked="" type="checkbox"/> <a href="#">ECO-151 Survey of Economics</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">ECO-251 Principles of Microeconomics</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">ECO-252 Principles of Macroeconomics</a>	<u>3.00</u>

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Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
<a href="#">ENG-113 Literature-Based Research</a>	<u>3.00</u>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<u>3.00</u>

**Credits: 15**

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## Second Year Fall:

Take the following courses

<input checked="" type="checkbox"/> <a href="#">BUS-137 Principles of Management</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">MKT-220 Advertising and Sales Promotion</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">MKT-225 Marketing Research</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">MKT-232 Social Media Marketing</a>	<u>4.00</u>

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Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<a href="#">ANT-210 General Anthropology</a>	<u>3.00</u>
<a href="#">ANT-220 Cultural Anthropology</a>	<u>3.00</u>
<a href="#">ANT-230 Physical Anthropology</a>	<u>3.00</u>
<a href="#">ANT-230A Physical Anthropology Lab</a>	<u>1.00</u>
<a href="#">ANT-240 Archaeology</a>	<u>3.00</u>
<a href="#">ANT-240A Archaeology Field Lab</a>	<u>2.00</u>
<a href="#">ECO-151 Survey of Economics</a>	<u>3.00</u>
<a href="#">ECO-251 Principles of Microeconomics</a>	<u>3.00</u>
<a href="#">ECO-252 Principles of Macroeconomics</a>	<u>3.00</u>
<a href="#">GEO-111 World Regional Geography</a>	<u>3.00</u>
<a href="#">GEO-112 Cultural Geography</a>	<u>3.00</u>
<a href="#">GEO-130 General Physical Geography</a>	<u>3.00</u>
<a href="#">HIS-111 World Civilizations I</a>	<u>3.00</u>
<a href="#">HIS-112 World Civilizations II</a>	<u>3.00</u>
<a href="#">HIS-122 Western Civilization II</a>	<u>3.00</u>
<a href="#">HIS-131 American History I</a>	<u>3.00</u>

<a href="#"><u>HIS-132 American History II</u></a>	<u>3.00</u>
<a href="#"><u>HIS-163 The World Since 1945</u></a>	<u>3.00</u>
<a href="#"><u>HIS-221 African-American History</u></a>	<u>3.00</u>
<a href="#"><u>HIS-226 The Civil War</u></a>	<u>3.00</u>
<a href="#"><u>HIS-236 North Carolina History</u></a>	<u>3.00</u>
<a href="#"><u>POL-120 American Government</u></a>	<u>3.00</u>
<a href="#"><u>POL-130 State &amp; Local Government</u></a>	<u>3.00</u>
<a href="#"><u>POL-220 International Relations</u></a>	<u>3.00</u>
<a href="#"><u>PSY-110 Life Span Development</u></a>	<u>3.00</u>
<a href="#"><u>PSY-118 Interpersonal Psychology</u></a>	<u>3.00</u>
<a href="#"><u>PSY-150 General Psychology</u></a>	<u>3.00</u>
<a href="#"><u>PSY-211 Psychology of Adjustment</u></a>	<u>3.00</u>
<a href="#"><u>PSY-237 Social Psychology</u></a>	<u>3.00</u>
<a href="#"><u>PSY-239 Psychology of Personality</u></a>	<u>3.00</u>
<a href="#"><u>PSY-241 Developmental Psychology</u></a>	<u>3.00</u>
<a href="#"><u>PSY-243 Child Psychology</u></a>	<u>3.00</u>
<a href="#"><u>PSY-246 Adolescent Psychology</u></a>	<u>3.00</u>
<a href="#"><u>PSY-249 Psychology of Aging</u></a>	<u>3.00</u>
<a href="#"><u>PSY-259 Human Sexuality</u></a>	<u>3.00</u>
<a href="#"><u>PSY-275 Health Psychology</u></a>	<u>3.00</u>
<a href="#"><u>PSY-281 Abnormal Psychology</u></a>	<u>3.00</u>
<a href="#"><u>SOC-210 Introduction to Sociology</u></a>	<u>3.00</u>
<a href="#"><u>SOC-213 Sociology of the Family</u></a>	<u>3.00</u>
<a href="#"><u>SOC-220 Social Problems</u></a>	<u>3.00</u>
<a href="#"><u>SOC-230 Race and Ethnic Relations</u></a>	<u>3.00</u>
<a href="#"><u>SOC-234 Sociology of Gender</u></a>	<u>3.00</u>
<a href="#"><u>SOC-240 Social Psychology</u></a>	<u>3.00</u>
<a href="#"><u>SOC-242 Sociology of Deviance</u></a>	<u>3.00</u>
<a href="#"><u>SOC-250 Sociology of Religion</u></a>	<u>3.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 19**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#"><u>MKT-227 Marketing Applications</u></a>	<u>3.00</u>
<a href="#"><u>ACC-121 Principles of Managerial Accounting</u></a>	<u>4.00</u>

<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>INT-110 International Business</u>	<u>3.00</u>
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Take three semester hour credits from the following standardized list of humanities/fine arts courses.	
<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>

<u>HUM-130 Myth in Human Culture</u>	3.00
<u>HUM-170 The Holocaust</u>	3.00
<u>MUS-110 Music Appreciation</u>	3.00
<u>MUS-112 Introduction to Jazz</u>	3.00
<u>MUS-210 History of Rock Music</u>	3.00
<u>PHI-230 Introduction to Logic</u>	3.00
<u>PHI-240 Introduction to Ethics</u>	3.00
<u>REL-110 World Religions</u>	3.00
<u>REL-211 Introduction to Old Testament</u>	3.00
<u>REL-212 Introduction to New Testament</u>	3.00

**Credits: 16**

## MAJOR ELECTIVES:

Take 3 semester hour credits (SHC) from the following courses. You may not select as a Major Electives the course you selected for your First Year Fall Marketing course.

<u>ACC-270 International Accounting</u>	3.00
<u>BUS-121 Business Math</u>	3.00
<u>BUS-153 Human Resource Management</u>	3.00
<u>BUS-217 Employment Law and Regulations</u>	3.00
<u>BUS-225 Business Finance</u>	3.00
<u>BUS-230 Small Business Management</u>	3.00
<u>BUS-234 Training and Development</u>	3.00
<u>BUS-240 Business Ethics</u>	3.00
<u>BUS-253 Leadership and Management Skills</u>	3.00
<u>BUS-256 Recruiting, Selection, &amp; Personnel Planning</u>	3.00
<u>BUS-258 Compensation and Benefits</u>	3.00
<u>BUS-259 HRM Applications</u>	3.00
<u>BUS-260 Business Communication</u>	3.00
<u>ECM-210 Introduction to E-Commerce</u>	3.00
<u>ETR-210 Introduction to Entrepreneurship</u>	3.00
<u>ETR-220 Innovation and Creativity</u>	3.00
<u>INT-210 International Trade</u>	3.00
<u>INT-230 International Law</u>	3.00
<u>MKT-123 Fundamentals of Selling</u>	3.00
<u>MKT-223 Customer Service</u>	3.00
<u>OST-136 Word Processing</u>	3.00
<u>SPA-111 Elementary Spanish I</u>	3.00
<u>WBL-110 World of Work</u>	1.00



<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WBL-122 Work-Based Learning II</u>	<u>2.00</u>
<u>WBL-131 Work-Based Learning III</u>	<u>1.00</u>

## Total Credits To Complete

**67-68**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Business Administration](#) / A25120BA

## Business Administration General Associate in Applied Science Degree A25120BA

Business Administration (25120) CIP 52.0201

🕒 Last updated on Jan. 13, 2020, 10:02 a.m.

The following is a suggested degree map for completing this degree in four semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">ACC-120 Principles of Financial Accounting</a>	4.00
<input checked="" type="checkbox"/> <a href="#">BUS-110 Introduction to Business</a>	3.00
<input checked="" type="checkbox"/> <a href="#">BUS-240 Business Ethics</a>	3.00
<a href="#">ENG-111 Writing and Inquiry</a>	3.00

Take one of the following math courses.

<a href="#">MAT-143 Quantitative Literacy</a>	3.00
<a href="#">MAT-152 Statistical Methods I</a>	4.00
<a href="#">MAT-171 Precalculus Algebra</a>	4.00

Take one of the following ACA courses.

<a href="#">ACA-115 Success &amp; Study Skills</a>	1.00
<a href="#">ACA-122 College Transfer Success</a>	1.00

**Credits: 17-18**

### First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">BUS-115 Business Law I</a>	3.00
<input checked="" type="checkbox"/> <a href="#">CIS-110 Introduction to Computers</a>	3.00
<input checked="" type="checkbox"/> <a href="#">MKT-120 Principles of Marketing</a>	3.00

Take one of the following economics courses.

<input checked="" type="checkbox"/> <a href="#">ECO-151 Survey of Economics</a>	3.00
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✓ <a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
✓ <a href="#">ECO-252 Principles of Macroeconomics</a>	<a href="#">3.00</a>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
<a href="#">ENG-113 Literature-Based Research</a>	<a href="#">3.00</a>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<a href="#">3.00</a>

**Credits: 15**

## Second Year Fall:

Take the following courses.

✓ <a href="#">BUS-137 Principles of Management</a>	<a href="#">3.00</a>
✓ <a href="#">BUS-230 Small Business Management</a>	<a href="#">3.00</a>
✓ <a href="#">BUS-253 Leadership and Management Skills</a>	<a href="#">3.00</a>
✓ <a href="#">BUS-260 Business Communication</a>	<a href="#">3.00</a>

Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<a href="#">ANT-210 General Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-220 Cultural Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-230 Physical Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-230A Physical Anthropology Lab</a>	<a href="#">1.00</a>
<a href="#">ANT-240 Archaeology</a>	<a href="#">3.00</a>
<a href="#">ANT-240A Archaeology Field Lab</a>	<a href="#">2.00</a>
<a href="#">ECO-151 Survey of Economics</a>	<a href="#">3.00</a>
<a href="#">ECO-251 Principles of Microeconomics</a>	<a href="#">3.00</a>
<a href="#">ECO-252 Principles of Macroeconomics</a>	<a href="#">3.00</a>
<a href="#">GEO-111 World Regional Geography</a>	<a href="#">3.00</a>
<a href="#">GEO-112 Cultural Geography</a>	<a href="#">3.00</a>
<a href="#">GEO-130 General Physical Geography</a>	<a href="#">3.00</a>
<a href="#">HIS-111 World Civilizations I</a>	<a href="#">3.00</a>
<a href="#">HIS-112 World Civilizations II</a>	<a href="#">3.00</a>
<a href="#">HIS-122 Western Civilization II</a>	<a href="#">3.00</a>
<a href="#">HIS-131 American History I</a>	<a href="#">3.00</a>
<a href="#">HIS-132 American History II</a>	<a href="#">3.00</a>
<a href="#">HIS-163 The World Since 1945</a>	<a href="#">3.00</a>
<a href="#">HIS-221 African-American History</a>	<a href="#">3.00</a>

<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology</u>	<u>3.00</u>
<u>PSY-243 Child Psychology</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality</u>	<u>3.00</u>
<u>PSY-275 Health Psychology</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 18**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <u>BUS-225 Business Finance</u>	<u>3.00</u>
<u>ACC-121 Principles of Managerial Accounting</u>	<u>4.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>INT-110 International Business</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>

<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

**Credits: 16**

## MAJOR ELECTIVES:

Take 3 semester hour credits (SHC) from the following courses.

<u>ACC-270 International Accounting</u>	<u>3.00</u>
<u>BUS-121 Business Math</u>	<u>3.00</u>
<u>BUS-153 Human Resource Management</u>	<u>3.00</u>
<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-234 Training and Development</u>	<u>3.00</u>
<u>BUS-256 Recruiting, Selection, &amp; Personnel Planning</u>	<u>3.00</u>
<u>BUS-258 Compensation and Benefits</u>	<u>3.00</u>
<u>BUS-259 HRM Applications</u>	<u>3.00</u>
<u>ECM-210 Introduction to E-Commerce</u>	<u>3.00</u>
<u>ETR-210 Introduction to Entrepreneurship</u>	<u>3.00</u>
<u>ETR-220 Innovation and Creativity</u>	<u>3.00</u>
<u>INT-210 International Trade</u>	<u>3.00</u>
<u>INT-230 International Law</u>	<u>3.00</u>
<u>MKT-123 Fundamentals of Selling</u>	<u>3.00</u>
<u>MKT-220 Advertising and Sales Promotion</u>	<u>3.00</u>
<u>MKT-223 Customer Service</u>	<u>3.00</u>
<u>MKT-225 Marketing Research</u>	<u>3.00</u>
<u>MKT-227 Marketing Applications</u>	<u>3.00</u>
<u>MKT-232 Social Media Marketing</u>	<u>4.00</u>
<u>OST-136 Word Processing</u>	<u>3.00</u>
<u>SPA-111 Elementary Spanish I</u>	<u>3.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>

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# Total Credits To Complete

**66-67**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Business Administration](#) / A25120HR

## Business Administration Human Resources Management Associate in Applied Science Degree A25120HR

Business Administration (25120) CIP 52.0201

🕒 Last updated on Jan. 13, 2020, 10:13 a.m.

The following is a suggested degree map for completing this degree in four semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">ACC-120 Principles of Financial Accounting</a>	4.00
<input checked="" type="checkbox"/> <a href="#">BUS-110 Introduction to Business</a>	3.00
<input checked="" type="checkbox"/> <a href="#">BUS-217 Employment Law and Regulations</a>	3.00
<a href="#">ENG-111 Writing and Inquiry</a>	3.00

Take one of the following math courses.

<a href="#">MAT-143 Quantitative Literacy</a>	3.00
<a href="#">MAT-152 Statistical Methods I</a>	4.00
<a href="#">MAT-171 Precalculus Algebra</a>	4.00

Take one of the following ACA courses.

<a href="#">ACA-115 Success &amp; Study Skills</a>	1.00
<a href="#">ACA-122 College Transfer Success</a>	1.00

**Credits: 17-18**

### First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">BUS-115 Business Law I</a>	3.00
<input checked="" type="checkbox"/> <a href="#">CIS-110 Introduction to Computers</a>	3.00
<input checked="" type="checkbox"/> <a href="#">MKT-120 Principles of Marketing</a>	3.00

Take one of the following economics courses.

<input checked="" type="checkbox"/> <a href="#">ECO-151 Survey of Economics</a>	3.00
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✓ <u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
✓ <u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>

Take one of the following communication courses.

<u>ENG-112 Writing and Research in the Disciplines</u>	<u>3.00</u>
<u>ENG-113 Literature-Based Research</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>

**Credits: 15**

## Second Year Fall:

Take the following courses.

✓ <u>BUS-137 Principles of Management</u>	<u>3.00</u>
✓ <u>BUS-234 Training and Development</u>	<u>3.00</u>
✓ <u>BUS-256 Recruiting, Selection, &amp; Personnel Planning</u>	<u>3.00</u>
✓ <u>BUS-258 Compensation and Benefits</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<u>ANT-210 General Anthropology</u>	<u>3.00</u>
<u>ANT-220 Cultural Anthropology</u>	<u>3.00</u>
<u>ANT-230 Physical Anthropology</u>	<u>3.00</u>
<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology</u>	<u>3.00</u>
<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History</u>	<u>3.00</u>

<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology</u>	<u>3.00</u>
<u>PSY-243 Child Psychology</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality</u>	<u>3.00</u>
<u>PSY-275 Health Psychology</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 18**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <u>BUS-259 HRM Applications</u>	<u>3.00</u>
<u>ACC-121 Principles of Managerial Accounting</u>	<u>4.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>INT-110 International Business</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>

<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

**Credits: 16**

## MAJOR ELECTIVES:

Take 3 semester hour credits from the following courses.

<u>ACC-270 International Accounting</u>	<u>3.00</u>
<u>BUS-121 Business Math</u>	<u>3.00</u>
<u>BUS-153 Human Resource Management</u>	<u>3.00</u>
<u>BUS-225 Business Finance</u>	<u>3.00</u>
<u>BUS-230 Small Business Management</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>
<u>BUS-253 Leadership and Management Skills</u>	<u>3.00</u>
<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>ECM-210 Introduction to E-Commerce</u>	<u>3.00</u>
<u>ETR-210 Introduction to Entrepreneurship</u>	<u>3.00</u>
<u>ETR-220 Innovation and Creativity</u>	<u>3.00</u>
<u>INT-210 International Trade</u>	<u>3.00</u>
<u>INT-230 International Law</u>	<u>3.00</u>
<u>MKT-123 Fundamentals of Selling</u>	<u>3.00</u>
<u>MKT-220 Advertising and Sales Promotion</u>	<u>3.00</u>
<u>MKT-223 Customer Service</u>	<u>3.00</u>
<u>MKT-225 Marketing Research</u>	<u>3.00</u>
<u>MKT-227 Marketing Applications</u>	<u>3.00</u>
<u>MKT-232 Social Media Marketing</u>	<u>4.00</u>
<u>OST-136 Word Processing</u>	<u>3.00</u>
<u>SPA-111 Elementary Spanish I</u>	<u>3.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>

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# Total Credits To Complete

**66-67**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Business Administration](#) / D25120

## Business Administration Diploma D25120

Business Administration (25120) CIP 52.0201




🕒 Last updated on Jan. 2, 2020, 11:57 a.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:


Take the following courses.

 <a href="#">ACC-120 Principles of Financial Accounting</a>	<a href="#">4.00</a>
 <a href="#">BUS-137 Principles of Management</a>	<a href="#">3.00</a>
 <a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
<a href="#">BUS-110 Introduction to Business</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 16**

### First Year Spring:

Take the following courses.

 <a href="#">ECO-151 Survey of Economics</a>	<a href="#">3.00</a>
 <a href="#">MKT-120 Principles of Marketing</a>	<a href="#">3.00</a>
<a href="#">ACC-121 Principles of Managerial Accounting</a>	<a href="#">4.00</a>
<a href="#">BUS-121 Business Math</a>	<a href="#">3.00</a>
<a href="#">BUS-260 Business Communication</a>	<a href="#">3.00</a>

**Credits: 16**

### First Year Summer:

Take the following course.

 <a href="#">BUS-115 Business Law I</a>	<a href="#">3.00</a>
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Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<a href="#">ANT-210 General Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-220 Cultural Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-230 Physical Anthropology</a>	<a href="#">3.00</a>

<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology</u>	<u>3.00</u>
<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology</u>	<u>3.00</u>
<u>PSY-243 Child Psychology</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality</u>	<u>3.00</u>
<u>PSY-275 Health Psychology</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>

<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
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<u>SOC-240 Social Psychology</u>	<u>3.00</u>
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<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
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<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>
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**Credits: 6**

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# Total Credits To Complete

**38**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Business Administration](#) / C25120CS

## Business Administration Customer Service Certificate C25120CS

Business Administration (25120) CIP 52.0201




 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Semester Fall:

Take the following courses.

 <a href="#">BUS-110 Introduction to Business</a>	<a href="#">3.00</a>
 <a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
 <a href="#">MKT-123 Fundamentals of Selling</a>	<a href="#">3.00</a>

**Credits: 9**

### First Year Spring:

Take the following courses.

<a href="#">BUS-260 Business Communication</a>	<a href="#">3.00</a>
<a href="#">MKT-120 Principles of Marketing</a>	<a href="#">3.00</a>
<a href="#">MKT-223 Customer Service</a>	<a href="#">3.00</a>

**Credits: 9**

# Total Credits To Complete

**18**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Business Administration](#) / C25120BC

## Business Administration Computing Certificate C25120BC

Business Administration (25120) CIP 52.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>BUS-110 Introduction to Business</u>	<u>3.00</u>
<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>ENG-111 Writing and Inquiry</u>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>

**Credits: 6**

# Total Credits To Complete

**15**

# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Business Administration](#) / C25120HR

## Business Administration Human Resources Certificate C25120HR

Business Administration (25120) CIP 52.0201

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-234 Training and Development</u>	<u>3.00</u>
<u>BUS-256 Recruiting, Selection, &amp; Personnel Planning</u>	<u>3.00</u>
<u>BUS-258 Compensation and Benefits</u>	<u>3.00</u>

**Credits: 12**

### First Year Spring:

Take the following courses.

<u>BUS-153 Human Resource Management</u>	<u>3.00</u>
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**Credits: 3**

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Business Administration](#) / C25120BM

## Business Administration Management Certificate C25120BM

Business Administration (25120) CIP 52.0201

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>BUS-137 Principles of Management</u>	<u>3.00</u>
<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-253 Leadership and Management Skills</u>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>

**Credits: 6**

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Business Administration](#) / C25120EN

## Business Administration Entrepreneurship Certificate C25120EN

Business Administration (25120) CIP 52.0201

 Last updated on June 3, 2020, 11:25 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree map may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following course.

<u>ETR-210 Introduction to Entrepreneurship</u>	<u>3.00</u>
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Take one of the following accounting courses.

<u>ACC-115 College Accounting</u>	<u>4.00</u>
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<u>ACC-120 Principles of Financial Accounting</u>	<u>4.00</u>
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**Credits: 7**

### First Year Spring:

Take the following courses.

<u>BUS-230 Small Business Management</u>	<u>3.00</u>
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<u>ETR-220 Innovation and Creativity</u>	<u>3.00</u>
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**Credits: 6**

# Total Credits To Complete

13

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Computer-Integrated Machining

## Computer-Integrated Machining (50210) CIP 48.0503

🕒 Last updated on Sept. 24, 2019, 11:43 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

<a href="#">Computer-Integrated Machining Associate in Applied Science Degree A50210</a> <a href="#">70 SHC total</a>	»
<a href="#">CCPP Computer-Integrated Machining Diploma D50210PB</a> <a href="#">40 SHC total</a>	»
<a href="#">Computer-Integrated Machining Diploma D50210</a> <a href="#">40 SHC total</a>	»
<a href="#">Computer-Integrated Machining Conventional Certificate C50210CM</a> <a href="#">18 SHC total</a>	»
<a href="#">CCPP Computer-Integrated Machining Certificate C50210PB</a> <a href="#">16 SHC total</a>	»
<a href="#">CCPP Computer-Integrated Machining CAM Certificate C50210PC</a> <a href="#">14 SHC total</a>	»
<a href="#">Computer-Integrated Machining CAM Certificate C50210CA</a> <a href="#">14 SHC total</a>	»
<a href="#">Computer-Integrated Machining CNC Operator Certificate C50210OP</a> <a href="#">14 SHC total</a>	»
<a href="#">Computer-Integrated Machining Basic CNC Certificate C50210CN</a> <a href="#">13 SHC total</a>	»
<a href="#">Computer-Integrated Machining Basic Certificate C50210BA</a> <a href="#">12 SHC total</a>	»

### Additional Information:

#### ACADEMIC PLANS:

[A50210 AAS](#), [D50210 Diploma](#), [C50210CM Conventional Certificate](#), [C50210OP CNC Operator Certificate](#), [C50210CN Basic CNC Certificate](#), [C50210CA CAM Certificate](#), [C50210BA Basic Certificate](#)

## Notes:

For additional information regarding this program, contact the chair, [Brandon Hoffner](#).

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## Faculty Mentors:

Brandon Hoffner

*Chair*

✉ [brandon.hoffner@rccc.edu](mailto:brandon.hoffner@rccc.edu)

☎ [704-216-3922](tel:704-216-3922)

📍 North

David Thompson

*Faculty*

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☎ [704-216-3933](tel:704-216-3933)

📍 North

Jason Hill

*Faculty*

✉ [jason.hill@rccc.edu](mailto:jason.hill@rccc.edu)

☎ [704-216-3915](tel:704-216-3915)

📍 North

Thomas Purser

*Faculty*

✉ [thomas.purser@rccc.edu](mailto:thomas.purser@rccc.edu)

☎ [704-216-3914](tel:704-216-3914)

📍 North

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / A50210

## Computer-Integrated Machining Associate in Applied Science Degree A50210

Computer-Integrated Machining (50210) CIP 48.0503

🕒 Last updated on Jan. 13, 2020, 2:14 p.m.

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> BPR-111 Print Reading	2.00
<input checked="" type="checkbox"/> MAC-111 Machining Technology I	6.00
MAC-114 Introduction to Metrology	2.00
MAC-151 Machining Calculations	2.00
MEC-142 Physical Metallurgy	2.00

**Credits: 14**

### First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> MAC-112 Machining Technology II	6.00
<input checked="" type="checkbox"/> MAC-122 CNC Turning	2.00
BPR-121 Blueprint Reading-Mechanical	2.00
MAC-124 CNC Milling	2.00
MAC-152 Advanced Machining Calculations	2.00
MEC-110 Introduction to CAD/CAM	2.00

**Credits: 16**

### First Year Summer:

Take the following courses.

ISC-113 Industrial Specifications	1.00
MAC-143 Machining Applications III	4.00
MAC-222 Advanced CNC Turning	2.00
MAC-224 Advanced CNC Milling	2.00



**Credits: 12**

## Second Year Fall:

Take the following courses.

<u>ENG-111 Writing and Inquiry.</u>	<u>3.00</u>
<u>MAT-121 Algebra/Trigonometry I</u>	<u>3.00</u>
<u>MEC-232 Computer-Aided Manufacturing II</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<u>ANT-210 General Anthropology.</u>	<u>3.00</u>
<u>ANT-220 Cultural Anthropology.</u>	<u>3.00</u>
<u>ANT-230 Physical Anthropology.</u>	<u>3.00</u>
<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology.</u>	<u>3.00</u>
<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>

<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology</u>	<u>3.00</u>
<u>PSY-243 Child Psychology</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality</u>	<u>3.00</u>
<u>PSY-275 Health Psychology</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

Take 2 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 14**

## Second Year Spring:

Take the following courses.

<u>MAC-233 Appl in CNC Machining</u>	<u>6.00</u>
<u>MAC-248 Production Procedures</u>	<u>2.00</u>

Take one of the following communication courses.

<u>COM-231 Public Speaking</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>

<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>

**Credits: 14**

## MAJOR ELECTIVES:

Take 2 semester hour credits from the following courses.

<u>BUS-230 Small Business Management</u>	<u>3.00</u>
<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>EGR-125 Appl Software for Tech</u>	<u>2.00</u>
<u>ISC-112 Industrial Safety</u>	<u>2.00</u>
<u>ISC-220 Lean Manufacturing</u>	<u>3.00</u>
<u>MAC-229 CNC Programming</u>	<u>2.00</u>
<u>MAC-234 Advanced Multi-Axis Machining</u>	<u>3.00</u>
<u>MEC-111 Machine Processes I</u>	<u>3.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WLD-112 Basic Welding Processes</u>	<u>2.00</u>

# Total Credits To Complete

**70**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / D50210

## Computer-Integrated Machining Diploma D50210

### Computer-Integrated Machining (50210) CIP 48.0503



🕒 Last updated on Jan. 13, 2020, 2:08 p.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">BPR-111 Print Reading</a>	<u>2.00</u>
 <a href="#">MAC-111 Machining Technology I</a>	<u>6.00</u>
<a href="#">MAC-114 Introduction to Metrology</a>	<u>2.00</u>
<a href="#">MAC-151 Machining Calculations</a>	<u>2.00</u>
<a href="#">MEC-142 Physical Metallurgy</a>	<u>2.00</u>

**Credits: 14**

### First Year Spring:

Take the following courses.

 <a href="#">MAC-112 Machining Technology II</a>	<u>6.00</u>
 <a href="#">MAC-122 CNC Turning</a>	<u>2.00</u>
<a href="#">BPR-121 Blueprint Reading-Mechanical</a>	<u>2.00</u>
<a href="#">MAC-124 CNC Milling</a>	<u>2.00</u>
<a href="#">MAC-152 Advanced Machining Calculations</a>	<u>2.00</u>
<a href="#">MEC-110 Introduction to CAD/CAM</a>	<u>2.00</u>

**Credits: 16**

### First Year Summer:

Take the following courses.

<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">MAC-143 Machining Applications III</a>	<u>4.00</u>

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<u>3.00</u>
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<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

**Credits: 10**

Total Credits To Complete

**40**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / C50210CM

## Computer-Integrated Machining Conventional Certificate C50210CM

### Computer-Integrated Machining (50210) CIP 48.0503

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">MAC-111 Machining Technology I</a>	<u>6.00</u>
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<a href="#">MAC-114 Introduction to Metrology</a>	<u>2.00</u>
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**Credits: 8**

### First Year Spring:

Take the following course.

<a href="#">MAC-112 Machining Technology II</a>	<u>6.00</u>
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**Credits: 6**

### First Year Summer:

Take the following course.

<a href="#">MAC-143 Machining Applications III</a>	<u>4.00</u>
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**Credits: 4**

## Total Credits To Complete

**18**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / C50210CA

## Computer-Integrated Machining CAM Certificate C50210CA

Computer-Integrated Machining (50210) CIP 48.0503

 Last updated on July 9, 2020, 2:36 p.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Spring:

Take the following courses.

<a href="#">MAC-122 CNC Turning</a>	<a href="#">2.00</a>
<a href="#">MAC-124 CNC Milling</a>	<a href="#">2.00</a>
<a href="#">MEC-110 Introduction to CAD/CAM</a>	<a href="#">2.00</a>

**Credits: 6**

### First Year Summer:

Take the following course.

<a href="#">MEC-231 Computer-Aided Manufacturing I</a>	<a href="#">3.00</a>
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**Credits: 3**

### First Year Fall:

Take the following courses.

<a href="#">BPR-111 Print Reading</a>	<a href="#">2.00</a>
<a href="#">MEC-232 Computer-Aided Manufacturing II</a>	<a href="#">3.00</a>

**Credits: 5**

# Total Credits To Complete

14



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / C50210OP

## Computer-Integrated Machining CNC Operator Certificate C50210OP

### Computer-Integrated Machining (50210) CIP 48.0503

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>BPR-111 Print Reading</u>	<u>2.00</u>
<u>MAC-111 Machining Technology I</u>	<u>6.00</u>
<u>MAC-114 Introduction to Metrology</u>	<u>2.00</u>

**Credits: 10**

### First Year Spring:

Take the following courses.

<u>MAC-122 CNC Turning</u>	<u>2.00</u>
<u>MAC-124 CNC Milling</u>	<u>2.00</u>

**Credits: 4**

## Total Credits To Complete

**14**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / C50210CN

## Computer-Integrated Machining Basic CNC Certificate C50210CN

### Computer-Integrated Machining (50210) CIP 48.0503

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">MAC-114 Introduction to Metrology</a>	<a href="#">2.00</a>
<a href="#">MEC-111 Machine Processes I</a>	<a href="#">3.00</a>
<a href="#">MEC-142 Physical Metallurgy</a>	<a href="#">2.00</a>

**Credits: 7**

### First Year Spring:

Take the following courses.

<a href="#">MAC-122 CNC Turning</a>	<a href="#">2.00</a>
<a href="#">MAC-124 CNC Milling</a>	<a href="#">2.00</a>
<a href="#">MEC-110 Introduction to CAD/CAM</a>	<a href="#">2.00</a>

**Credits: 6**

## Total Credits To Complete

**13**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / C50210BA

## Computer-Integrated Machining Basic Certificate C50210BA

Computer-Integrated Machining (50210) CIP 48.0503

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in one semester. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">BPR-111 Print Reading</a>	<u>2.00</u>
<a href="#">MAC-111 Machining Technology I</a>	<u>6.00</u>
<a href="#">MAC-114 Introduction to Metrology</a>	<u>2.00</u>
<a href="#">MAC-151 Machining Calculations</a>	<u>2.00</u>

**Credits: 12**

# Total Credits To Complete

**12**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / D50210PB

## CCPP Computer-Integrated Machining Diploma D50210PB

Computer-Integrated Machining (50210) CIP 48.0503

 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">BPR-111 Print Reading</a>	<u>2.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">HUM-110 Technology and Society</a>	<u>3.00</u>
<a href="#">MAC-111 Machining Technology I</a>	<u>6.00</u>
<a href="#">MAC-112 Machining Technology II</a>	<u>6.00</u>
<a href="#">MAC-114 Introduction to Metrology</a>	<u>2.00</u>
<a href="#">MAC-122 CNC Turning</a>	<u>2.00</u>
<a href="#">MAC-124 CNC Milling</a>	<u>2.00</u>
<a href="#">MAC-151 Machining Calculations</a>	<u>2.00</u>
<a href="#">MAC-222 Advanced CNC Turning</a>	<u>2.00</u>
<a href="#">MAC-224 Advanced CNC Milling</a>	<u>2.00</u>
<a href="#">MEC-110 Introduction to CAD/CAM</a>	<u>2.00</u>
<a href="#">MEC-231 Computer-Aided Manufacturing I</a>	<u>3.00</u>
<a href="#">MEC-232 Computer-Aided Manufacturing II</a>	<u>3.00</u>

**Credits: 40**

## Total Credits To Complete

**40**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / C50210PB


## CCPP Computer-Integrated Machining Certificate C50210PB

Computer-Integrated Machining (50210) CIP 48.0503

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<u>BPR-111 Print Reading</u>	<u>2.00</u>
<u>MAC-111 Machining Technology I</u>	<u>6.00</u>
<u>MAC-112 Machining Technology II</u>	<u>6.00</u>
<u>MAC-114 Introduction to Metrology</u>	<u>2.00</u>

**Credits: 16**

# Total Credits To Complete

**16**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Computer-Integrated Machining](#) / C50210PC

## CCPP Computer-Integrated Machining CAM Certificate C50210PC Computer-Integrated Machining (50210) CIP 48.0503

🕒 Last updated on July 9, 2020, 2:39 p.m.

The  symbol denotes a core course that may not be substituted.

### Take the following courses.:

<a href="#">BPR-111 Print Reading</a>	<u>2.00</u>
<a href="#">MAC-122 CNC Turning</a>	<u>2.00</u>
<a href="#">MAC-124 CNC Milling</a>	<u>2.00</u>
<a href="#">MEC-110 Introduction to CAD/CAM</a>	<u>2.00</u>
<a href="#">MEC-231 Computer-Aided Manufacturing I</a>	<u>3.00</u>
<a href="#">MEC-232 Computer-Aided Manufacturing II</a>	<u>3.00</u>

**Credits: 14**

# Total Credits To Complete

**14**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Construction Management Technology

## Construction Management Technology (35190) CIP 46.0401

🕒 Last updated on Sept. 24, 2019, 11:44 a.m.

The construction management technology curriculum is designed to prepare students to apply technical knowledge and skills in the construction management field. It prepares students to supervise, manage, and inspect construction sites, buildings, and associated facilities.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to construction occupations. Instruction includes 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.

Graduates should qualify for entry-level positions in construction and trades professions as well as positions in industry and government.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Construction Management Technology Associate in Applied Science Degree A35190](#) »

64 SHC total

[Construction Management Technology Diploma D35190](#) »

39 SHC total

[CCPP Construction Management Technology Certificate C35190PB](#) »

18 SHC total

[Construction Management Technology Project Supervision Certificate C35190SU](#) »

18 SHC total

[Construction Management Technology BIM/CAD Certificate C35190BC](#) »

12 SHC total

### Additional Information:

If you plan to further your education after RCCC, please consider the [4-Year Degree Transfer Program](#). For additional information, please contact the chair.

#### ACADEMIC PLANS:

[A35190 AAS](#), [D35190 Diploma](#), [C35190SU Project Supervision Certificate](#), [C35190BC BIM/CAD Certificate](#)

### Notes:

For additional information regarding this program, contact the chair, Joe Christie, [joe.christie@rccc.edu](mailto:joe.christie@rccc.edu).

### Faculty Mentors:

Joe Christie

Chair

Kao Vang

Lead Faculty

✉ [joe.christie@rccc.edu](mailto:joe.christie@rccc.edu)

☎ [704-216-3908](tel:704-216-3908)

☰ CBTC

✉ [kao.vang@rccc.edu](mailto:kao.vang@rccc.edu)

☎ [704-216-3903](tel:704-216-3903)

☰ South

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Construction Management Technology](#) / A35190

## Construction Management Technology Associate in Applied Science Degree A35190

Construction Management Technology (35190) CIP 46.0401




🕒 Last updated on Jan. 14, 2020, 8:16 a.m.

The following is a suggested degree map for completing this degree in six semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">BPR-130 Print Reading-Construction</a>	<a href="#">3.00</a>
 <a href="#">CMT-210 Construction Management Fundamentals</a>	<a href="#">3.00</a>
 <a href="#">CMT-212 Total Safety Performance</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

Take one of the following natural sciences/math courses.

<a href="#">MAT-110 Mathematical Measurement and Literacy</a>	<a href="#">3.00</a>
<a href="#">MAT-121 Algebra/Trigonometry I</a>	<a href="#">3.00</a>
<a href="#">PHY-110 Conceptual Physics</a>	<a href="#">3.00</a>

**Credits: 15**

### First Year Spring:

Take the following courses.

<a href="#">AHR-120 HVACR Maintenance</a>	<a href="#">2.00</a>
<a href="#">CMT-216 Costs and Productivity</a>	<a href="#">3.00</a>
<a href="#">CMT-218 Human Relations Issues</a>	<a href="#">3.00</a>
<a href="#">EGR-125 Appl Software for Tech</a>	<a href="#">2.00</a>

Take one of the following communication courses.

<a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<a href="#">3.00</a>

**Credits: 13**

## First Year Summer:

Take the following courses.

<input checked="" type="checkbox"/> <u>CMT-120 Codes and Inspections</u>	<u>3.00</u>
<input checked="" type="checkbox"/> <u>SST-140 Green Building and Design Concepts</u>	<u>3.00</u>

**Credits: 6**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <u>ACC-120 Principles of Financial Accounting</u>	<u>4.00</u>
<u>ELC-111 Introduction to Electricity</u>	<u>3.00</u>

Take 6 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 13**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <u>CMT-214 Planning and Scheduling</u>	<u>3.00</u>
<input checked="" type="checkbox"/> <u>CST-241 Planning/Estimating I</u>	<u>3.00</u>
<u>ARC-225 Architectural Building Information Modeling I</u>	<u>2.00</u>
<u>SPA-120 Spanish for the Workplace</u>	<u>3.00</u>

Take 3 semester hour credits from the following standardized list of humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>

ART-288 Studio	3.00
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

**Credits: 14**

## Second Year Summer:

Take 3 semester hour credits from the following standardized list of social/behavioral sciences courses.

<u>ANT-210 General Anthropology</u>	<u>3.00</u>
<u>ANT-220 Cultural Anthropology</u>	<u>3.00</u>
<u>ANT-230 Physical Anthropology</u>	<u>3.00</u>
<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology</u>	<u>3.00</u>

<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>
<u>PSY-243 Child Psychology.</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology.</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality.</u>	<u>3.00</u>
<u>PSY-275 Health Psychology.</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology.</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family.</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>

<u>SOC-240 Social Psychology</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

**Credits: 3**

## MAJOR ELECTIVES Course List:

Select 6 semester hours credit (SHC) from the following courses. WBL coursework is limited to 7 SHC. Students anticipating transferring to a four-year university must immediately consult with the program chair of construction management technology to choose electives that will better prepare transfer students.

<u>ACC-115 College Accounting</u>	<u>4.00</u>
<u>ACC-121 Principles of Managerial Accounting</u>	<u>4.00</u>
<u>ACC-129 Individual Income Taxes</u>	<u>3.00</u>
<u>ACC-132 NC Business Taxes</u>	<u>2.00</u>
<u>ACC-140 Payroll Accounting</u>	<u>2.00</u>
<u>ACC-149 Intro to ACC Spreadsheets</u>	<u>2.00</u>
<u>ACC-150 Accounting Software Applications</u>	<u>2.00</u>
<u>ACC-175 Hotel and Restaurant Accounting</u>	<u>4.00</u>
<u>ACC-215 Ethics in Accounting</u>	<u>3.00</u>
<u>ACC-220 Intermediate Accounting I</u>	<u>4.00</u>
<u>ACC-221 Intermediate Accounting II</u>	<u>4.00</u>
<u>ACC-225 Cost Accounting</u>	<u>3.00</u>
<u>ACC-240 Gov &amp; Not-For-Profit Acct</u>	<u>3.00</u>
<u>ACC-250 Advanced Accounting</u>	<u>3.00</u>
<u>ACC-268 Information Systems &amp; Internal Controls</u>	<u>3.00</u>
<u>ACC-269 Auditing &amp; Assurance Services</u>	<u>3.00</u>
<u>ACC-270 International Accounting</u>	<u>3.00</u>
<u>AHR-110 Introduction to Refrigeration</u>	<u>5.00</u>
<u>AHR-112 Heating Technology</u>	<u>4.00</u>
<u>AHR-113 Comfort Cooling</u>	<u>4.00</u>
<u>AHR-114 Heat Pump Technology</u>	<u>4.00</u>
<u>AHR-115 Refrigeration Systems</u>	<u>2.00</u>
<u>AHR-130 HVAC Controls</u>	<u>3.00</u>
<u>AHR-151 HVAC Duct Systems I</u>	<u>2.00</u>
<u>AHR-152 HVAC Duct Systems II</u>	<u>2.00</u>
<u>AHR-160 Refrigerant Certification</u>	<u>1.00</u>
<u>AHR-211 Residential System Design</u>	<u>3.00</u>
<u>AHR-212 Advanced Comfort Systems</u>	<u>4.00</u>
<u>AHR-213 HVACR Building Code</u>	<u>2.00</u>

<u>AHR-215 Commercial HVAC Controls</u>	<u>2.00</u>
<u>AHR-225 Commercial System Design</u>	<u>3.00</u>
<u>AHR-235 Refrigeration Design</u>	<u>3.00</u>
<u>AHR-245 Chiller Systems</u>	<u>2.00</u>
<u>AHR-255 Indoor Air Quality</u>	<u>2.00</u>
<u>AHR-263 Energy Management</u>	<u>2.00</u>
<u>ARC-114 Architectural CAD</u>	<u>2.00</u>
<u>ARC-221 Architectural 3-D CAD</u>	<u>3.00</u>
<u>ARC-226 Architectural Building Information Modeling II</u>	<u>2.00</u>
<u>BPR-111 Print Reading</u>	<u>2.00</u>
<u>BPR-121 Blueprint Reading-Mechanical</u>	<u>2.00</u>
<u>BUS-110 Introduction to Business</u>	<u>3.00</u>
<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-121 Business Math</u>	<u>3.00</u>
<u>BUS-125 Personal Finance</u>	<u>3.00</u>
<u>BUS-137 Principles of Management</u>	<u>3.00</u>
<u>BUS-153 Human Resource Management</u>	<u>3.00</u>
<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-225 Business Finance</u>	<u>3.00</u>
<u>BUS-230 Small Business Management</u>	<u>3.00</u>
<u>BUS-234 Training and Development</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>
<u>BUS-253 Leadership and Management Skills</u>	<u>3.00</u>
<u>BUS-256 Recruiting, Selection, &amp; Personnel Planning</u>	<u>3.00</u>
<u>BUS-258 Compensation and Benefits</u>	<u>3.00</u>
<u>BUS-259 HRM Applications</u>	<u>3.00</u>
<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>CIV-240 Project Management</u>	<u>3.00</u>
<u>CST-131 OSHA/Safety/Certification</u>	<u>3.00</u>
<u>DFT-111 Technical Drafting I</u>	<u>2.00</u>
<u>DFT-112 Technical Drafting II</u>	<u>2.00</u>
<u>DFT-121 Introduction to GD&amp;T</u>	<u>2.00</u>
<u>DFT-151 CAD I</u>	<u>3.00</u>
<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>

<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>ELC-112 DC/AC Electricity</u>	<u>5.00</u>
<u>ELC-113 Residential Wiring</u>	<u>4.00</u>
<u>ELC-115 Industrial Wiring</u>	<u>4.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-118 National Electrical Code</u>	<u>2.00</u>
<u>ELC-119 NEC Calculations</u>	<u>2.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>
<u>ELC-126 Electrical Computations</u>	<u>3.00</u>
<u>ELC-128 Introduction to Programmable Logic Controller</u>	<u>3.00</u>
<u>ELC-138 DC Circuit Analysis</u>	<u>4.00</u>
<u>ELC-139 AC Circuit Analysis</u>	<u>4.00</u>
<u>ELC-215 Electrical Maintenance</u>	<u>3.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MAT-272 Calculus II</u>	<u>4.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>
<u>PHY-110A Conceptual Physics Lab</u>	<u>1.00</u>
<u>PHY-131 Physics-Mechanics</u>	<u>4.00</u>
<u>PHY-132 Physics-Electricity &amp; Magnetism</u>	<u>4.00</u>
<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>PHY-152 College Physics II</u>	<u>4.00</u>
<u>PHY-251 General Physics I</u>	<u>4.00</u>
<u>PHY-252 General Physics II</u>	<u>4.00</u>
<u>UAS-115 Small UAS Certification</u>	<u>2.00</u>
<u>UAS-230 UAS Aerial Photo Surveys</u>	<u>3.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
<u>WBL-114 Work-Based Learning I</u>	<u>4.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WBL-122 Work-Based Learning II</u>	<u>2.00</u>
<u>WBL-123 Work-Based Learning II</u>	<u>3.00</u>
<u>WBL-131 Work-Based Learning III</u>	<u>1.00</u>

<u>WBL-132 Work-Based Learning III</u>	<u>2.00</u>
<u>WBL-211 Work-Based Learning IV</u>	<u>1.00</u>
<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
<u>WLD-112 Basic Welding Processes</u>	<u>2.00</u>
<u>WLD-115 SMAW (Stick) Plate</u>	<u>5.00</u>
<u>WLD-116 SMAW (stick) Plate/Pipe</u>	<u>4.00</u>
<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	<u>4.00</u>
<u>WLD-122 GMAW (MIG) Plate/Pipe</u>	<u>3.00</u>
<u>WLD-131 GTAW (TIG) Plate</u>	<u>4.00</u>
<u>WLD-132 GTAW (TIG) Plate/Pipe</u>	<u>3.00</u>
<u>WLD-141 Symbols and Specifications</u>	<u>3.00</u>
<u>WLD-143 Welding Metallurgy</u>	<u>2.00</u>
<u>WLD-151 Fabrication I</u>	<u>4.00</u>
<u>WLD-215 SMAW (stick) Pipe</u>	<u>4.00</u>
<u>WLD-231 GTAW (TIG) Pipe</u>	<u>3.00</u>
<u>WLD-261 Certification Practices</u>	<u>2.00</u>
<u>WLD-265 Automated Welding/Cutting</u>	<u>4.00</u>

Total Credits To Complete

64



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Construction Management Technology](#) / D35190

## Construction Management Technology Diploma D35190

### Construction Management Technology (35190) CIP 46.0401


🕒 Last updated on Jan. 13, 2020, 2:36 p.m.

The following is a suggested degree map for completing this diploma in four semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">BPR-130 Print Reading-Construction</a>	<a href="#">3.00</a>
<a href="#">CMT-210 Construction Management Fundamentals</a>	<a href="#">3.00</a>
<a href="#">CMT-212 Total Safety Performance</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 12**

### First Year Spring:

Take the following courses.

 <a href="#">CST-241 Planning/Estimating I</a>	<a href="#">3.00</a>
<a href="#">CMT-214 Planning and Scheduling</a>	<a href="#">3.00</a>
<a href="#">CMT-216 Costs and Productivity</a>	<a href="#">3.00</a>
<a href="#">CMT-218 Human Relations Issues</a>	<a href="#">3.00</a>
<a href="#">EGR-125 Appl Software for Tech</a>	<a href="#">2.00</a>

**Credits: 14**

### First Year Summer:

Take the following courses.

 <a href="#">CMT-120 Codes and Inspections</a>	<a href="#">3.00</a>
 <a href="#">SST-140 Green Building and Design Concepts</a>	<a href="#">3.00</a>

**Credits: 6**

### Second Year Fall:

Take the following course.

<a href="#">ACC-120 Principles of Financial Accounting</a>	<a href="#">4.00</a>
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Take three semester hour credits from the following general education courses.

<u>ANT-210 General Anthropology</u>	<u>3.00</u>
<u>ANT-220 Cultural Anthropology</u>	<u>3.00</u>
<u>ANT-230 Physical Anthropology</u>	<u>3.00</u>
<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology</u>	<u>3.00</u>
<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>COM-231 Public Speaking</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>

<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>HUM-110 Technology and Society.</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MAT-110 Mathematical Measurement and Literacy.</u>	<u>3.00</u>
<u>MAT-121 Algebra/Trigonometry I</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-231 Forensic Psychology.</u>	<u>3.00</u>

<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>
<u>PSY-243 Child Psychology.</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology.</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality.</u>	<u>3.00</u>
<u>PSY-275 Health Psychology.</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology.</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family.</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology.</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

**Credits: 7**

## Total Credits To Complete

**39**

# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Construction Management Technology](#) / C35190SU

## Construction Management Technology Project Supervision Certificate C35190SU

Construction Management Technology (35190) CIP 46.0401

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>BPR-130 Print Reading-Construction</u>	<u>3.00</u>
<u>CMT-210 Construction Management Fundamentals</u>	<u>3.00</u>
<u>CMT-212 Total Safety Performance</u>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<u>CMT-214 Planning and Scheduling</u>	<u>3.00</u>
<u>CMT-216 Costs and Productivity</u>	<u>3.00</u>
<u>CMT-218 Human Relations Issues</u>	<u>3.00</u>

**Credits: 9**

# Total Credits To Complete

18

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Construction Management Technology](#) / C35190BC

## Construction Management Technology BIM/CAD Certificate C35190BC

### Construction Management Technology (35190) CIP 46.0401

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The 📌 symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">ARC-114 Architectural CAD</a>	<u>2.00</u>
<a href="#">BPR-130 Print Reading-Construction</a>	<u>3.00</u>

**Credits: 5**

### First Year Spring:

Take the following courses.

<a href="#">ARC-221 Architectural 3-D CAD</a>	<u>3.00</u>
<a href="#">ARC-225 Architectural Building Information Modeling I</a>	<u>2.00</u>

**Credits: 5**

### First Year Summer:

Take the following courses.

<a href="#">ARC-226 Architectural Building Information Modeling II</a>	<u>2.00</u>
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**Credits: 2**

## Total Credits To Complete

**12**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Construction Management Technology](#) / C35190PB

## CCPP Construction Management Technology Certificate C35190PB

### Construction Management Technology (35190) CIP 46.0401

🕒 Last updated on June 28, 2019, 10:59 a.m.

## Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

### Take the following courses.:

<a href="#">BPR-130 Print Reading-Construction</a>	<u>3.00</u>
<a href="#">CMT-120 Codes and Inspections</a>	<u>3.00</u>
<a href="#">CMT-210 Construction Management Fundamentals</a>	<u>3.00</u>
<a href="#">CMT-212 Total Safety Performance</a>	<u>3.00</u>
<a href="#">CST-241 Planning/Estimating I</a>	<u>3.00</u>
<a href="#">SST-140 Green Building and Design Concepts</a>	<u>3.00</u>

**Credits: 18**

# Total Credits To Complete

**18**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Cosmetology

## Cosmetology

(55140) CIP 12.0401

🕒 Last updated on April 2, 2020, 8:32 a.m.

The cosmetology curriculum is designed to provide competency-based knowledge, scientific and 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 and 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.

## Curriculum Offerings:

SHC - Semester Hour Credits

[Cosmetology Associate in Applied Science Degree A55140](#) »

67 SHC total

[Cosmetology Diploma D55140](#) »

47 SHC total

[CCPP Cosmetology Certificate C55140PB](#) »

34 SHC total

[Cosmetology Certificate C55140](#) »

34 SHC total

## Additional Information:

[Steps to Enroll for Cosmetology Programs](#)

**ACADEMIC PLANS:** [A55140 AAS](#), [D55140 Diploma](#), [C55140 Certificate](#)

## Notes:

For additional information regarding this program, contact the chair, Ronald Wolfe, [ronald.wolfe@rccc.edu](mailto:ronald.wolfe@rccc.edu).

## Faculty Mentors:

Ronald Wolfe

Chair

✉ [ronald.wolfe@rccc.edu](mailto:ronald.wolfe@rccc.edu)📞 [704-216-3927](tel:704-216-3927)

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Carissa Hooks

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📍 College Station

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Cosmetology](#) / A55140

## Cosmetology Associate in Applied Science Degree A55140

Cosmetology (55140) CIP 12.0401



 Last updated on March 5, 2020, 3:41 p.m.

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">COS-111 Cosmetology Concepts I</a>	<u>4.00</u>
 <a href="#">COS-112 Salon I</a>	<u>8.00</u>
<a href="#">MKT-232 Social Media Marketing</a>	<u>4.00</u>

**Credits: 16**

### First Year Spring:

Take the following courses.

 <a href="#">COS-113 Cosmetology Concepts II</a>	<u>4.00</u>
 <a href="#">COS-114 Salon II</a>	<u>8.00</u>
<a href="#">SOC-210 Introduction to Sociology</a>	<u>3.00</u>

**Credits: 15**

### First Year Summer:

Take the following courses.

 <a href="#">COS-115 Cosmetology Concepts III</a>	<u>4.00</u>
 <a href="#">COS-116 Salon III</a>	<u>4.00</u>

Take one of the following natural sciences/math courses.

<a href="#">BIO-140 Environmental Biology</a>	<u>3.00</u>
<a href="#">MAT-110 Mathematical Measurement and Literacy</a>	<u>3.00</u>

**Credits: 11**

### Second Year Fall:

Take the following courses.

✔ <u>COS-117 Cosmetology Concepts IV</u>	<u>2.00</u>
<u>COS-118 Salon IV</u>	<u>7.00</u>
<u>COS-223 Contemp Hair Coloring</u>	<u>2.00</u>
<u>COS-240 Contemporary Design</u>	<u>2.00</u>

**Credits: 13**

## Second Year Spring:

Take the following courses.

<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>COM-231 Public Speaking</u>	<u>3.00</u>
<u>ENG-111 Writing and Inquiry</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>

<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

**Credits: 9**

Total Credits To Complete

**67**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Cosmetology](#) / D55140

## Cosmetology Diploma D55140

Cosmetology (55140) CIP 12.0401


 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this diploma in four semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">COS-111 Cosmetology Concepts I</a>	<u>4.00</u>
 <a href="#">COS-112 Salon I</a>	<u>8.00</u>

Take one of the following communication courses.

<a href="#">ENG-102 Applied Communications II</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

**Credits: 15**

### First Year Spring:

Take the following courses.

 <a href="#">COS-113 Cosmetology Concepts II</a>	<u>4.00</u>
 <a href="#">COS-114 Salon II</a>	<u>8.00</u>

Take one of the following social/behavioral sciences courses.

<a href="#">PSY-118 Interpersonal Psychology</a>	<u>3.00</u>
<a href="#">SOC-210 Introduction to Sociology</a>	<u>3.00</u>

**Credits: 15**

### First Year Summer:

Take the following courses.

 <a href="#">COS-115 Cosmetology Concepts III</a>	<u>4.00</u>
 <a href="#">COS-116 Salon III</a>	<u>4.00</u>

**Credits: 8**

## Second Year Fall:

Take the following courses.

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<input checked="" type="checkbox"/> <u>COS-117 Cosmetology Concepts IV</u>	<u>2.00</u>
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<u>COS-118 Salon IV</u>	<u>7.00</u>
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**Credits: 9**

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# Total Credits To Complete

**47**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Cosmetology](#) / C55140

## Cosmetology Certificate C55140

Cosmetology (55140) CIP 12.0401

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in four semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">COS-111 Cosmetology Concepts I</a>	<u>4.00</u>
 <a href="#">COS-112 Salon I</a>	<u>8.00</u>

**Credits: 12**

### First Year Spring:

Take the following courses.

 <a href="#">COS-113 Cosmetology Concepts II</a>	<u>4.00</u>
 <a href="#">COS-114 Salon II</a>	<u>8.00</u>

**Credits: 12**

### First Year Summer:

Take the following courses.

 <a href="#">COS-115 Cosmetology Concepts III</a>	<u>4.00</u>
 <a href="#">COS-116 Salon III</a>	<u>4.00</u>

**Credits: 8**

### Second Year Fall:

Take one of the following cosmetology courses.

<a href="#">COS-117 Cosmetology Concepts IV</a>	<u>2.00</u>
<a href="#">COS-240 Contemporary Design</a>	<u>2.00</u>

**Credits: 2**

# Total Credits To Complete

34

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Cosmetology](#) / C55140PB

## CCPP Cosmetology Certificate C55140PB

Cosmetology (55140) CIP 12.0401

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The 🎯 symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">COS-111 Cosmetology Concepts I</a>	<u>4.00</u>
<a href="#">COS-112 Salon I</a>	<u>8.00</u>
<a href="#">COS-113 Cosmetology Concepts II</a>	<u>4.00</u>
<a href="#">COS-114 Salon II</a>	<u>8.00</u>
<a href="#">COS-115 Cosmetology Concepts III</a>	<u>4.00</u>
<a href="#">COS-116 Salon III</a>	<u>4.00</u>
<a href="#">COS-240 Contemporary Design</a>	<u>2.00</u>

**Credits: 34**

# Total Credits To Complete

**34**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Cosmetology Instructor

## Cosmetology Instructor (55160) CIP 12.0413

🕒 Last updated on April 2, 2020, 8:33 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Cosmetology Instructor Certificate C55160](#)

24 SHC total



### Additional Information:

[Steps to Enroll for Cosmetology Programs](#)

### Notes:

For additional information regarding this program, contact the chair, Ronald Wolfe, [ronald.wolfe@rccc.edu](mailto:ronald.wolfe@rccc.edu).

### Faculty Mentors:

Ronald Wolfe	<i>Chair</i>
<hr/>	
✉ <a href="mailto:ronald.wolfe@rccc.edu">ronald.wolfe@rccc.edu</a>	
☎ <a href="tel:704-216-3927">704-216-3927</a>	
📍 College Station	

Michelle Sofia	<i>Faculty</i>
<hr/>	
✉ <a href="mailto:michelle.sofia@rccc.edu">michelle.sofia@rccc.edu</a>	
☎ <a href="tel:704-216-3928">704-216-3928</a>	
📍 College Station	

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Cosmetology Instructor](#) / C55160

## Cosmetology Instructor Certificate C55160

Cosmetology Instructor (55160) CIP 12.0413


🕒 Last updated on June 28, 2019, 10:59 a.m.

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 [COS-271 Instructor Concepts I](#) 5.00

 [COS-272 Instructor Practicum I](#) 7.00

**Credits: 12**

### First Year Spring:

Take the following courses.

 [COS-273 Instructor Concepts II](#) 5.00

 [COS-274 Instructor Practicum II](#) 7.00

**Credits: 12**

# Total Credits To Complete

**24**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Criminal Justice Technology

## Criminal Justice Technology (55180) CIP 43.0104

🕒 Last updated on Sept. 27, 2019, 10:47 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

<a href="#">Criminal Justice Technology Associate in Applied Science Degree A55180</a> <a href="#">66-67 SHC total</a>	»
<a href="#">CCPP Criminal Justice Technology Diploma D55180PB</a> <a href="#">37 SHC total</a>	»
<a href="#">Criminal Justice Technology Diploma D55180</a> <a href="#">37 SHC total</a>	»
<a href="#">CCPP Criminal Justice Technology Certificate C55180PB</a> <a href="#">18 SHC total</a>	»
<a href="#">Criminal Justice Technology Juvenile Justice Certificate C55180JJ</a> <a href="#">18 SHC total</a>	»
<a href="#">Criminal Justice Technology Homeland Security Certificate C55180HS</a> <a href="#">17 SHC total</a>	»
<a href="#">Criminal Justice Technology Certificate C55180</a> <a href="#">15 SHC total</a>	»

### Additional Information:

Criminal Justice employers require criminal background checks and a criminal record may prohibit employment.

#### ACADEMIC PLANS:

[A55180 AAS](#), [D55180 Diploma](#), [C55180JJ Juvenile Justice Certificate](#), [C55180HS Homeland Security Certificate](#), [C55180 Certificate](#)

### Notes:

For additional information regarding this program, contact the director, Chris Nesbitt, [chris.nesbitt@rccc.edu](mailto:chris.nesbitt@rccc.edu).

### Faculty Mentors:

Chris Nesbitt

*Director*

✉ [chris.nesbitt@rccc.edu](mailto:chris.nesbitt@rccc.edu)

☎ [704-216-3756](tel:704-216-3756)

📍 North

F. Wayne Laney Jr.

*Faculty*

✉ [frank.laney@rccc.edu](mailto:frank.laney@rccc.edu)

☎ [704-216-3883](tel:704-216-3883)

📍 North

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Criminal Justice Technology](#) / A55180

## Criminal Justice Technology Associate in Applied Science Degree A55180

Criminal Justice Technology (55180) CIP 43.0104


🕒 Last updated on Nov. 4, 2019, 12:49 p.m.

The following is a suggested degree map for completing this degree in four semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">CJC-111 Introduction to Criminal Justice</a>	<u>3.00</u>
<a href="#">CJC-121 Law Enforcement Operations</a>	<u>3.00</u>
<a href="#">CJC-141 Corrections</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>

**Credits: 15**

### First Year Spring:

Take the following courses.

 <a href="#">CJC-112 Criminology</a>	<u>3.00</u>
 <a href="#">CJC-113 Juvenile Justice</a>	<u>3.00</u>
<a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>
<a href="#">SOC-210 Introduction to Sociology</a>	<u>3.00</u>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<u>3.00</u>

**Credits: 18**

### Second Year Fall:

Take the following courses.

 <a href="#">CJC-131 Criminal Law</a>	<u>3.00</u>
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✓ <u>CJC-212 Ethics &amp; Community Relations</u>	<u>3.00</u>
✓ <u>CJC-231 Constitutional Law</u>	<u>3.00</u>
<u>CJC-120 Interviews/Interrogations</u>	<u>2.00</u>

Take one of the following math courses.

<u>MAT-143 Quantitative Literacy</u>	<u>3.00</u>
<u>MAT-152 Statistical Methods I</u>	<u>4.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 17-18**

## Second Year Spring:

Take the following courses.

✓ <u>CJC-221 Investigative Principles</u>	<u>4.00</u>
<u>CJC-132 Court Procedure &amp; Evidence</u>	<u>3.00</u>
<u>CJC-214 Victimology</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 16**

## MAJOR ELECTIVES Course List:

Select 6 semester hour credits from the following courses. This may include up to 3 semester hour credits from WBL course/combination of courses.

<u>CJC-161 Introduction to Homeland Security</u>	<u>3.00</u>
<u>CJC-162 Intelligence Analysis and Security Management</u>	<u>3.00</u>
<u>CJC-163 Transportation and Border Security</u>	<u>3.00</u>
<u>CJC-170 Critical Incident Mgmt for Public Safety</u>	<u>3.00</u>
<u>CJC-223 Organized Crime</u>	<u>3.00</u>
<u>CJC-233 Correctional Law</u>	<u>3.00</u>
<u>CJC-261 High-Risk Situations</u>	<u>2.00</u>
<u>EPT-220 Terrorism and Emergency Management</u>	<u>3.00</u>
<u>PED-111 Physical Fitness I</u>	<u>1.00</u>
<u>PED-112 Physical Fitness II</u>	<u>1.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>PSY-231 Forensic Psychology</u>	<u>3.00</u>

<a href="#"><u>PSY-281 Abnormal Psychology</u></a>	<u>3.00</u>
<a href="#"><u>SOC-213 Sociology of the Family</u></a>	<u>3.00</u>
<a href="#"><u>SOC-245 Drugs and Society</u></a>	<u>3.00</u>
<a href="#"><u>WBL-110 World of Work</u></a>	<u>1.00</u>
<a href="#"><u>WBL-111 Work-Based Learning I</u></a>	<u>1.00</u>
<a href="#"><u>WBL-112 Work-Based Learning I</u></a>	<u>2.00</u>
<a href="#"><u>WBL-113 Work-Based Learning I</u></a>	<u>3.00</u>
<a href="#"><u>WBL-121 Work-Based Learning II</u></a>	<u>1.00</u>
<a href="#"><u>WBL-122 Work-Based Learning II</u></a>	<u>2.00</u>
<a href="#"><u>WBL-131 Work-Based Learning III</u></a>	<u>1.00</u>

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### **Additional Information:**

Criminal Justice employers require criminal background checks and a criminal record may prohibit employment.

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# Total Credits To Complete

**66-67**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Criminal Justice Technology](#) / D55180

## Criminal Justice Technology Diploma D55180

Criminal Justice Technology (55180) CIP 43.0104


🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">CJC-111 Introduction to Criminal Justice</a>	<u>3.00</u>
<a href="#">CJC-121 Law Enforcement Operations</a>	<u>3.00</u>
<a href="#">CJC-141 Corrections</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

**Credits: 12**

### First Year Spring:




Take the following courses.

 <a href="#">CJC-112 Criminology</a>	<u>3.00</u>
 <a href="#">CJC-113 Juvenile Justice</a>	<u>3.00</u>
<a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>

**Credits: 12**

### Second Year Fall:

Take the following courses.

 <a href="#">CJC-131 Criminal Law</a>	<u>3.00</u>
 <a href="#">CJC-212 Ethics &amp; Community Relations</a>	<u>3.00</u>
 <a href="#">CJC-231 Constitutional Law</a>	<u>3.00</u>
<a href="#">MAT-143 Quantitative Literacy</a>	<u>3.00</u>

Take one of the following work-based learning courses.

<a href="#">WBL-110 World of Work</a>	<u>1.00</u>
<a href="#">WBL-111 Work-Based Learning I</a>	<u>1.00</u>

Credits: 13

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### Additional Information:

Criminal Justice employers require criminal background checks and a criminal record may prohibit employment.

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# Total Credits To Complete

37

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Criminal Justice Technology](#) / C55180JJ

## Criminal Justice Technology Juvenile Justice Certificate C55180JJ

Criminal Justice Technology (55180) CIP 43.0104

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some student's degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">CJC-111 Introduction to Criminal Justice</a>	<u>3.00</u>
<a href="#">CJC-141 Corrections</a>	<u>3.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<a href="#">CJC-112 Criminology</a>	<u>3.00</u>
<a href="#">CJC-113 Juvenile Justice</a>	<u>3.00</u>
<a href="#">SOC-213 Sociology of the Family</a>	<u>3.00</u>

**Credits: 18**

### Additional Information:

Criminal Justice employers require criminal background checks and a criminal record may prohibit employment.

# Total Credits To Complete

**18**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Criminal Justice Technology](#) / C55180HS

## Criminal Justice Technology Homeland Security Certificate C55180HS

### Criminal Justice Technology (55180) CIP 43.0104

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in one semester. Some student's degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">CJC-111 Introduction to Criminal Justice</a>	<a href="#">3.00</a>
<a href="#">CJC-161 Introduction to Homeland Security</a>	<a href="#">3.00</a>
<a href="#">CJC-162 Intelligence Analysis and Security Management</a>	<a href="#">3.00</a>
<a href="#">CJC-163 Transportation and Border Security</a>	<a href="#">3.00</a>
<a href="#">CJC-231 Constitutional Law</a>	<a href="#">3.00</a>
<a href="#">CJC-261 High-Risk Situations</a>	<a href="#">2.00</a>

**Credits: 17**

### Additional Information:

Criminal Justice employers require criminal background checks and a criminal record may prohibit employment.

## Total Credits To Complete

**17**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Criminal Justice Technology](#) / C55180

## Criminal Justice Technology Certificate C55180

Criminal Justice Technology (55180) CIP 43.0104

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">CJC-111 Introduction to Criminal Justice</a>	<u>3.00</u>
<a href="#">CJC-121 Law Enforcement Operations</a>	<u>3.00</u>
<a href="#">CJC-141 Corrections</a>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<a href="#">CJC-112 Criminology</a>	<u>3.00</u>
<a href="#">CJC-113 Juvenile Justice</a>	<u>3.00</u>

**Credits: 6**

### Additional Information:

Criminal Justice employers require criminal background checks and a criminal record may prohibit employment.

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Criminal Justice Technology](#) / D55180PB

## CCPP Criminal Justice Technology Diploma D55180PB

Criminal Justice Technology (55180) CIP 43.0104

 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">CJC-111 Introduction to Criminal Justice</a>	<u>3.00</u>
<a href="#">CJC-112 Criminology</a>	<u>3.00</u>
<a href="#">CJC-113 Juvenile Justice</a>	<u>3.00</u>
<a href="#">CJC-121 Law Enforcement Operations</a>	<u>3.00</u>
<a href="#">CJC-131 Criminal Law</a>	<u>3.00</u>
<a href="#">CJC-141 Corrections</a>	<u>3.00</u>
<a href="#">CJC-212 Ethics &amp; Community Relations</a>	<u>3.00</u>
<a href="#">CJC-231 Constitutional Law</a>	<u>3.00</u>
<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">MAT-143 Quantitative Literacy</a>	<u>3.00</u>
<a href="#">WBL-110 World of Work</a>	<u>1.00</u>

**Credits: 37**

## Total Credits To Complete

**37**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Criminal Justice Technology](#) / C55180PB

## CCPP Criminal Justice Technology Certificate C55180PB

Criminal Justice Technology (55180) CIP 43.0104

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">CJC-111 Introduction to Criminal Justice</a>	<u>3.00</u>
<a href="#">CJC-112 Criminology</a>	<u>3.00</u>
<a href="#">CJC-113 Juvenile Justice</a>	<u>3.00</u>
<a href="#">CJC-121 Law Enforcement Operations</a>	<u>3.00</u>
<a href="#">CJC-131 Criminal Law</a>	<u>3.00</u>
<a href="#">CJC-141 Corrections</a>	<u>3.00</u>

**Credits: 18**

# Total Credits To Complete

**18**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Dental Assisting

## Dental Assisting (45240) CIP 51.0601

🕒 Last updated on April 1, 2020, 4:56 p.m.

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 and 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.

## Curriculum Offerings:

SHC - Semester Hour Credits

[Dental Assisting Diploma D45240](#)

45 SHC total

»

## Additional Information:

[Comprehensive List of Dental Assisting Program Information](#)

[D45240 Diploma Academic Plan](#)

## Notes:

For additional information regarding this program, contact the chair, Amanda Belleville, amanda.belleville@rccc.edu.

## Faculty Mentors:

Amanda Belleville

*Chair*

✉ [amanda.belleville@rccc.edu](mailto:amanda.belleville@rccc.edu)

📞 [704-216-3727](tel:704-216-3727)

📍 North

Meredith Parker

*Faculty*

✉ [meredith.parker@rccc.edu](mailto:meredith.parker@rccc.edu)

📞 [704-216-3726](tel:704-216-3726)

📍 North



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Dental Assisting](#) / D45240

## Dental Assisting Diploma D45240





Dental Assisting (45240) CIP 51.0601

🕒 Last updated on Jan. 14, 2020, 12:14 p.m.

The  symbol denotes a core course that may not be substituted.

### Fall Semester:

Take the following courses.






 <a href="#">DEN-100 Basic Orofacial Anatomy</a>	<u>2.00</u>
 <a href="#">DEN-101 Preclinical Procedures</a>	<u>7.00</u>
 <a href="#">DEN-102 Dental Materials</a>	<u>4.00</u>
 <a href="#">DEN-111 Infection/Hazard Control</a>	<u>2.00</u>
<a href="#">BIO-106 Intro to Anatomy/Physiology/Microbiology</a>	<u>3.00</u>

**Credits: 18**
**Note:**

Instead of taking BIO 106, students may take BIO 168, BIO 169, and BIO 275 (all three courses).

### Spring Semester:


Take the following courses.

 <a href="#">DEN-103 Dental Sciences</a>	<u>2.00</u>
 <a href="#">DEN-104 Dental Health Education</a>	<u>3.00</u>
 <a href="#">DEN-105 Practice Management</a>	<u>2.00</u>
 <a href="#">DEN-106 Clinical Practice I</a>	<u>6.00</u>
 <a href="#">DEN-112 Dental Radiography</a>	<u>3.00</u>

**Credits: 16**

### Summer Term:

Take the following courses.

 <a href="#">DEN-107 Clinical Practice II</a>	<u>5.00</u>
<a href="#">ENG-102 Applied Communications II</a>	<u>3.00</u>

**Note:**

Instead of taking ENG-102, students may take both ENG-111 and COM-231.

Take one of the following social/behavioral sciences courses.

<a href="#">PSY-118 Interpersonal Psychology</a>	<u>3.00</u>
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**Credits: 11**

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## Additional Information:

**Alternative Biology Courses:**

Students planning to take the alternate BIO courses (BIO-168, BIO-169, AND BIO-275 instead of BIO-106) must discuss with the chair prior to registering for the alternate courses.

**Minimum Grades Required:**

ENG, BIO, COM, and PSY courses require a minimum grade of "C" to complete the diploma.

DEN courses require a minimum grade of "B" to complete the diploma.

---

# Total Credits To Complete

**45**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Early Childhood Education

## Early Childhood Education

(55220) CIP 13.1210

🕒 Last updated on Sept. 24, 2019, 11:50 a.m.

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.

## Curriculum Offerings:

SHC - Semester Hour Credits

[Early Childhood Education Transfer B-K Teacher Licensure Associate in Applied Science Degree A55220TL](#) »

[70 SHC total](#)

[Early Childhood Education Transfer Non-Licensure Associate in Applied Science Degree A55220TN](#) »

[70 SHC total](#)

[Early Childhood Education Career Ready Associate in Applied Science Degree A55220NT](#) »

[65-66 SHC total](#)

[Early Childhood Education Diploma D55220](#) »

[41 SHC total](#)

[Early Childhood Education Administrators Advanced Certificate C55220EA](#) »

[16 SHC total](#)

[Early Childhood Education Child Care Specialist Certificate C55220CS](#) »

[16 SHC total](#)

[CCPP Early Childhood Education Certificate C55220PB](#) »

[14 SHC total](#)

## Additional Information:

North Carolina Child Care Licensing Regulations require that all volunteers working in the Early Childhood field obtain a federal criminal background check. Because most of our courses require students to enter child care centers and schools, all students enrolled in the Early Childhood programs are required to obtain a federal criminal background check and submit to the program chair a copy of the qualification letter they receive from the state. A negative report may prevent students from participating in required courses, which means that the student cannot complete the program requirements. An application process will be required prior to students entering into EDU 214 and EDU 284. Students must have at least a 2.5 GPA, C or higher in Early Childhood courses and be in their last two semesters in order to apply for EDU 214 and EDU 284. Please contact the chair of Early Childhood Education if you have any questions.

## Notes:

For additional information regarding this program, contact the chair, Waynett Taylor, [waynett.taylor@rccc.edu](mailto:waynett.taylor@rccc.edu).

See [Infant/Toddler Care Certificate](#).

**ACADEMIC PLANS:**

[A55220NT Career Ready AAS](#), [A55220TN Transfer Non-Licensure AAS](#), [A55220TL Transfer B-K Teacher Licensure AAS](#), [D55220 Diploma](#), [C55220CS Child Care Specialist Certificate](#), [C55220EA Administrators Advanced Certificate](#)

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## Faculty Mentors:

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Early Childhood Education](#) / A55220TL

## Early Childhood Education Transfer B-K Teacher Licensure Associate in Applied Science Degree A55220TL

Early Childhood Education (55220) CIP 13.1210

🕒 Last updated on June 17, 2020, 12:40 p.m.





This program is for students who are planning to transfer per the Early Childhood Articulation Agreement (ECAA) for Birth to Kindergarten (B-K) Licensure.

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:




Take the following courses.

 <a href="#">EDU-119 Introduction to Early Childhood Education</a>	4.00
 <a href="#">EDU-144 Child Development I</a>	3.00
 <a href="#">EDU-151 Creative Activities</a>	3.00
 <a href="#">EDU-153 Health, Safety and Nutrition</a>	3.00
<a href="#">ENG-111 Writing and Inquiry</a>	3.00

**Credits: 16**

### First Year Spring:

Take the following courses.

 <a href="#">EDU-131 Child, Family, and Community</a>	3.00
 <a href="#">EDU-145 Child Development II</a>	3.00
 <a href="#">EDU-146 Child Guidance</a>	3.00
<a href="#">MAT-143 Quantitative Literacy</a>	3.00

Take one of the following natural sciences/mathematics sets of transfer courses.

Set One:

<a href="#">AST-111 Descriptive Astronomy</a>	3.00
<a href="#">AST-111A Descriptive Astronomy Lab</a>	1.00

Set Two:

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<u>AST-151 General Astronomy I</u>	<u>3.00</u>
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<u>AST-151A General Astronomy I Lab</u>	<u>1.00</u>
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Set Three:

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<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
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Set Four:

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<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>
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<u>PHY-110A Conceptual Physics Lab</u>	<u>1.00</u>
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**Credits: 16**

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## First Year Summer:

Take the following courses.

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<u>COM-231 Public Speaking</u>	<u>3.00</u>
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<u>PSY-150 General Psychology</u>	<u>3.00</u>
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Take one of the following communication transfer courses.

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<u>ENG-112 Writing and Research in the Disciplines</u>	<u>3.00</u>
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<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>
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**Credits: 9**

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## Second Year Fall:

Take the following courses.

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<input checked="" type="checkbox"/> <u>EDU-216 Foundations of Education</u>	<u>3.00</u>
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<input checked="" type="checkbox"/> <u>EDU-221 Children With Exceptionalities</u>	<u>3.00</u>
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<input checked="" type="checkbox"/> <u>EDU-280 Language/Literacy Experiences</u>	<u>3.00</u>
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Take one of the following biology transfer courses.

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<u>BIO-110 Principles of Biology</u>	<u>4.00</u>
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<u>BIO-111 General Biology I</u>	<u>4.00</u>
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Take one of the following humanities/fine arts courses.

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<u>ART-111 Art Appreciation</u>	<u>3.00</u>
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<u>ART-114 Art History Survey I</u>	<u>3.00</u>
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<u>ART-115 Art History Survey II</u>	<u>3.00</u>
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<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
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MUS-112 Introduction to Jazz 3.00

PHI-240 Introduction to Ethics 3.00

**Credits: 16**

## Second Year Spring:

Take the following courses.

✓ EDU-234 Infants, Toddlers, & Twos 3.00

✓ EDU-250 Teacher Licensure Preparation 3.00

✓ EDU-284 Early Childhood Capstone Practicum 4.00

Take one of the following social/behavioral science transfer courses.

ECO-251 Principles of Microeconomics 3.00

ECO-252 Principles of Macroeconomics 3.00

HIS-111 World Civilizations I 3.00

HIS-112 World Civilizations II 3.00

HIS-131 American History I 3.00

HIS-132 American History II 3.00

POL-120 American Government 3.00

SOC-210 Introduction to Sociology 3.00

**Credits: 13**

## Additional Information:

# Criminal Background Check

North Carolina Child Care Licensing Regulations require that all volunteers working in the Early Childhood field obtain a criminal background check. Because most of our courses require students to enter child care centers and schools, all students enrolled in the Early Childhood programs are required to obtain a criminal background check and submit to the program chair a copy of the clearance letter they receive from the state. A negative report may prevent students from participating in required courses, which means that the student cannot complete the program requirements.

# Practicum Application

An application process will be required prior to students entering into EDU 284. Students must have at least a 2.5 GPA, C or higher in Early Childhood courses and be in their last two semesters in order to apply for EDU 284. Please contact the program chair of Early Childhood Education if you have any questions.

# Total Credits To Complete

**70**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Early Childhood Education](#) / A55220TN

## Early Childhood Education Transfer Non-Licensure Associate in Applied Science Degree A55220TN

Early Childhood Education (55220) CIP 13.1210

🕒 Last updated on June 17, 2020, 12:40 p.m.

This program is for students who are planning to transfer per the Early Childhood Articulation Agreement (ECAA) for Early Education Non-Licensure.

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The 🍎 symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

🍎 <a href="#">EDU-119 Introduction to Early Childhood Education</a>	<a href="#">4.00</a>
🍎 <a href="#">EDU-144 Child Development I</a>	<a href="#">3.00</a>
🍎 <a href="#">EDU-151 Creative Activities</a>	<a href="#">3.00</a>
🍎 <a href="#">EDU-153 Health, Safety and Nutrition</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 16**

### First Year Spring:

Take the following courses.

🍎 <a href="#">EDU-145 Child Development II</a>	<a href="#">3.00</a>
🍎 <a href="#">EDU-146 Child Guidance</a>	<a href="#">3.00</a>
<a href="#">MAT-143 Quantitative Literacy</a>	<a href="#">3.00</a>

Take one of the following natural sciences/mathematics sets of transfer courses. Each set has two courses.

Set One:

<a href="#">AST-111 Descriptive Astronomy</a>	<a href="#">3.00</a>
<a href="#">AST-111A Descriptive Astronomy Lab</a>	<a href="#">1.00</a>

Set Two:

<a href="#">AST-151 General Astronomy I</a>	<a href="#">3.00</a>
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AST-151A General Astronomy I Lab 1.00

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Set Three:

CHM-151 General Chemistry I 4.00

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Set Four:

PHY-110 Conceptual Physics 3.00

PHY-110A Conceptual Physics Lab 1.00

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Take one of the following social/behavioral science transfer courses.

ECO-251 Principles of Microeconomics 3.00

ECO-252 Principles of Macroeconomics 3.00

HIS-111 World Civilizations I 3.00

HIS-112 World Civilizations II 3.00

HIS-131 American History I 3.00

HIS-132 American History II 3.00

POL-120 American Government 3.00

SOC-210 Introduction to Sociology 3.00

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**Credits: 16**

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## First Year Summer:

Take the following courses.

COM-231 Public Speaking 3.00

PSY-150 General Psychology 3.00

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Take one of the following communication courses.

ENG-112 Writing and Research in the Disciplines 3.00

ENG-114 Professional Research & Reporting 3.00

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**Credits: 9**

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## Second Year Fall:

Take the following courses.

✓ EDU-221 Children With Exceptionalities 3.00

✓ EDU-261 Early Childhood Administration I 3.00

✓ EDU-280 Language/Literacy Experiences 3.00

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Take one of the following biology courses.

<a href="#">BIO-110 Principles of Biology</a>	<a href="#">4.00</a>
<a href="#">BIO-111 General Biology I</a>	<a href="#">4.00</a>

Take one of the following humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>

**Credits: 16**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">EDU-131 Child, Family, and Community</a>	<a href="#">3.00</a>
<input checked="" type="checkbox"/> <a href="#">EDU-234 Infants, Toddlers, &amp; Twos</a>	<a href="#">3.00</a>
<input checked="" type="checkbox"/> <a href="#">EDU-262 Early Childhood Administration II</a>	<a href="#">3.00</a>
<input checked="" type="checkbox"/> <a href="#">EDU-284 Early Childhood Capstone Practicum</a>	<a href="#">4.00</a>

**Credits: 13**

## Additional Information:

### Criminal Background Check

North Carolina Child Care Licensing Regulations require that all volunteers working in the Early Childhood field obtain a criminal background check. Because most of our courses require students to enter child care centers and schools, all students enrolled in the Early Childhood programs are required to obtain a criminal background check and submit to the program chair a copy of the clearance letter they receive from the state. A negative report may prevent students from participating in required courses, which means that the student cannot complete the program requirements.

### Practicum Application

An application process will be required prior to students entering into EDU 284. Students must have at least a 2.5 GPA, C or higher in Early Childhood courses and be in their last two semesters in order to apply for EDU 284. Please contact the program chair of Early Childhood Education if you have any questions.

# Total Credits To Complete

**70**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Early Childhood Education](#) / A55220NT

## Early Childhood Education Career Ready Associate in Applied Science Degree A55220NT

Early Childhood Education (55220) CIP 13.1210

🕒 Last updated on Jan. 14, 2020, 2:13 p.m.





This program is for students who are NOT planning to transfer per the Early Childhood Articulation agreement (ECAA).

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:




Take the following courses.

 <a href="#">EDU-119 Introduction to Early Childhood Education</a>	4.00
 <a href="#">EDU-144 Child Development I</a>	3.00
 <a href="#">EDU-151 Creative Activities</a>	3.00
 <a href="#">EDU-153 Health, Safety and Nutrition</a>	3.00
<a href="#">ENG-111 Writing and Inquiry</a>	3.00

**Credits: 16**

### First Year Spring:

Take the following courses.

 <a href="#">EDU-131 Child, Family, and Community</a>	3.00
 <a href="#">EDU-145 Child Development II</a>	3.00
 <a href="#">EDU-146 Child Guidance</a>	3.00

Select three semester hour credits from these humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	3.00
<a href="#">ART-114 Art History Survey I</a>	3.00
<a href="#">ART-115 Art History Survey II</a>	3.00
<a href="#">ART-121 Two-Dimensional Design</a>	3.00
<a href="#">ART-131 Drawing I</a>	3.00
<a href="#">ART-132 Drawing II</a>	3.00
<a href="#">ART-240 Painting I</a>	3.00
<a href="#">ART-241 Painting II</a>	3.00

<a href="#"><u>ART-244 Watercolor</u></a>	<u>3.00</u>
<a href="#"><u>ART-261 Photography I</u></a>	<u>3.00</u>
<a href="#"><u>ART-262 Photography II</u></a>	<u>3.00</u>
<a href="#"><u>ART-266 Videography I</u></a>	<u>3.00</u>
<a href="#"><u>ART-281 Sculpture I</u></a>	<u>3.00</u>
<a href="#"><u>ART-283 Ceramics I</u></a>	<u>3.00</u>
<a href="#"><u>ART-288 Studio</u></a>	<u>3.00</u>
<a href="#"><u>DRA-111 Theatre Appreciation</u></a>	<u>3.00</u>
<a href="#"><u>DRA-126 Storytelling</u></a>	<u>3.00</u>
<a href="#"><u>HUM-110 Technology and Society</u></a>	<u>3.00</u>
<a href="#"><u>HUM-115 Critical Thinking</u></a>	<u>3.00</u>
<a href="#"><u>HUM-120 Cultural Studies</u></a>	<u>3.00</u>
<a href="#"><u>HUM-122 Southern Culture</u></a>	<u>3.00</u>
<a href="#"><u>HUM-130 Myth in Human Culture</u></a>	<u>3.00</u>
<a href="#"><u>HUM-170 The Holocaust</u></a>	<u>3.00</u>
<a href="#"><u>MUS-110 Music Appreciation</u></a>	<u>3.00</u>
<a href="#"><u>MUS-112 Introduction to Jazz</u></a>	<u>3.00</u>
<a href="#"><u>MUS-210 History of Rock Music</u></a>	<u>3.00</u>
<a href="#"><u>PHI-230 Introduction to Logic</u></a>	<u>3.00</u>
<a href="#"><u>PHI-240 Introduction to Ethics</u></a>	<u>3.00</u>
<a href="#"><u>REL-110 World Religions</u></a>	<u>3.00</u>
<a href="#"><u>REL-211 Introduction to Old Testament</u></a>	<u>3.00</u>
<a href="#"><u>REL-212 Introduction to New Testament</u></a>	<u>3.00</u>

**Credits: 12**

## First Year Summer:

Take the following courses.

<a href="#"><u>COM-231 Public Speaking</u></a>	<u>3.00</u>
<a href="#"><u>PSY-150 General Psychology</u></a>	<u>3.00</u>

Take one of the following communication courses.

<a href="#"><u>ENG-112 Writing and Research in the Disciplines</u></a>	<u>3.00</u>
<a href="#"><u>ENG-113 Literature-Based Research</u></a>	<u>3.00</u>
<a href="#"><u>ENG-114 Professional Research &amp; Reporting</u></a>	<u>3.00</u>

**Credits: 9**

## Second Year Fall:

Take the following courses.

✓ <u>EDU-221 Children With Exceptionalities</u>	<u>3.00</u>
✓ <u>EDU-280 Language/Literacy Experiences</u>	<u>3.00</u>
<u>EDU-214 Early Childhood Intermediate Practicum</u>	<u>4.00</u>
<u>EDU-251 Exploration Activities</u>	<u>3.00</u>

Take 2 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

## Second Year Spring:

Take the following courses.

✓ <u>EDU-234 Infants, Toddlers, &amp; Twos</u>	<u>3.00</u>
✓ <u>EDU-284 Early Childhood Capstone Practicum</u>	<u>4.00</u>
<u>EDU-261 Early Childhood Administration I</u>	<u>3.00</u>

Take one of the following natural sciences/mathematics courses.

<u>AST-111 Descriptive Astronomy.</u>	<u>3.00</u>
<u>BIO-110 Principles of Biology.</u>	<u>4.00</u>
<u>BIO-140 Environmental Biology.</u>	<u>3.00</u>
<u>CHM-121 Foundations of Chemistry.</u>	<u>3.00</u>
<u>MAT-110 Mathematical Measurement and Literacy.</u>	<u>3.00</u>
<u>MAT-143 Quantitative Literacy.</u>	<u>3.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>

**Credits: 13-14**

## MAJOR ELECTIVES:

Take 2 semester hour credits from the following courses.

<u>EDU-162 Observation and Assessment in Early Childhood Education</u>	<u>3.00</u>
<u>EDU-235 School-Age Development and Programs</u>	<u>3.00</u>
<u>EDU-247 Sensory and Physical Disabilities</u>	<u>3.00</u>
<u>EDU-248 Developmental Delays</u>	<u>3.00</u>
<u>EDU-254 Music and Movement for Children</u>	<u>2.00</u>
<u>EDU-259 Curriculum Planning</u>	<u>3.00</u>
<u>EDU-262 Early Childhood Administration II</u>	<u>3.00</u>
<u>EDU-282 Early Childhood Literature</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>

<a href="#"><u>SOC-213 Sociology of the Family</u></a>	<a href="#"><u>3.00</u></a>
<a href="#"><u>SPA-120 Spanish for the Workplace</u></a>	<a href="#"><u>3.00</u></a>
<a href="#"><u>WBL-110 World of Work</u></a>	<a href="#"><u>1.00</u></a>
<a href="#"><u>WBL-112 Work-Based Learning I</u></a>	<a href="#"><u>2.00</u></a>

**Additional Information:**

## Criminal Background Check

North Carolina Child Care Licensing Regulations require that all volunteers working in the Early Childhood field obtain a criminal background check. Because most of our courses require students to enter child care centers and schools, all students enrolled in the Early Childhood programs are required to obtain a criminal background check and submit to the program chair a copy of the clearance letter they receive from the state. A negative report may prevent students from participating in required courses, which means that the student cannot complete the program requirements.

## Practicum Application

An application process will be required prior to students entering into EDU 214 and EDU 284. Students must have at least a 2.5 GPA, C or higher in Early Childhood courses and be in their last two semesters in order to apply for EDU 214 and EDU 284. Please contact the program chair of Early Childhood Education if you have any questions.

Total Credits To Complete

**65-66**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Early Childhood Education](#) / D55220

## Early Childhood Education Diploma D55220

Early Childhood Education (55220) CIP 13.1210





🕒 Last updated on Sept. 6, 2019, 9:55 a.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:




Take the following courses.

 <a href="#">EDU-119 Introduction to Early Childhood Education</a>	<u>4.00</u>
 <a href="#">EDU-144 Child Development I</a>	<u>3.00</u>
 <a href="#">EDU-151 Creative Activities</a>	<u>3.00</u>
 <a href="#">EDU-153 Health, Safety and Nutrition</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

**Credits: 16**

### First Year Spring:


Take the following courses.

 <a href="#">EDU-131 Child, Family, and Community</a>	<u>3.00</u>
 <a href="#">EDU-145 Child Development II</a>	<u>3.00</u>
 <a href="#">EDU-146 Child Guidance</a>	<u>3.00</u>
<a href="#">EDU-261 Early Childhood Administration I</a>	<u>3.00</u>

**Credits: 12**

### Second Year Fall:

Take the following courses.

 <a href="#">EDU-221 Children With Exceptionalities</a>	<u>3.00</u>
<a href="#">EDU-214 Early Childhood Intermediate Practicum</a>	<u>4.00</u>
<a href="#">EDU-280 Language/Literacy Experiences</a>	<u>3.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>

**Credits: 13**

### Additional Information:

# Criminal Background Check

North Carolina Child Care Licensing Regulations require that all volunteers working in the Early Childhood field obtain a criminal background check. Because most of our courses require students to enter child care centers and schools, all students enrolled in the Early Childhood programs are required to obtain a criminal background check and submit to the program chair a copy of the clearance letter they receive from the state. A negative report may prevent students from participating in required courses, which means that the student cannot complete the program requirements.

# Practicum Application

An application process will be required prior to students entering into EDU 214. Students must have at least a 2.5 GPA, C or higher in Early Childhood courses and be in their last semester in order to apply for EDU 214. Please contact the program chair of Early Childhood Education if you have any questions.

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## Total Credits To Complete

41



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Early Childhood Education](#) / C55220EA

## Early Childhood Education Administrators Advanced Certificate C55220EA

Early Childhood Education (55220) CIP 13.1210

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different,

depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>EDU-119 Introduction to Early Childhood Education</u>	<u>4.00</u>
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<u>EDU-153 Health, Safety and Nutrition</u>	<u>3.00</u>
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**Credits: 7**

### First Year Spring:

Take the following courses.

<u>EDU-131 Child, Family, and Community</u>	<u>3.00</u>
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<u>EDU-261 Early Childhood Administration I</u>	<u>3.00</u>
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<u>EDU-262 Early Childhood Administration II</u>	<u>3.00</u>
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**Credits: 9**
**Note:**

EDU 261 will be taught in the first 8-weeks; EDU 262 will be taught in the second 8-weeks.

# Total Credits To Complete

16

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Early Childhood Education](#) / C55220CS

## Early Childhood Education Child Care Specialist Certificate C55220CS

### Early Childhood Education (55220) CIP 13.1210

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The 📌 symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>EDU-119 Introduction to Early Childhood Education</u>	<u>4.00</u>
<u>EDU-151 Creative Activities</u>	<u>3.00</u>

**Credits: 7**

### First Year Spring:

Take the following courses.

<u>EDU-146 Child Guidance</u>	<u>3.00</u>
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Take 6 semester hour credits from the following courses.

<u>EDU-131 Child, Family, and Community</u>	<u>3.00</u>
<u>EDU-144 Child Development I</u>	<u>3.00</u>
<u>EDU-145 Child Development II</u>	<u>3.00</u>
<u>EDU-153 Health, Safety and Nutrition</u>	<u>3.00</u>
<u>EDU-162 Observation and Assessment in Early Childhood Education</u>	<u>3.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>

**Credits: 9**

# Total Credits To Complete

**16**

# Awards


2020-2021

Award details listed below.


[All Programs](#) / [Early Childhood Education](#) / C55220PB

## CCPP Early Childhood Education Certificate C55220PB

Early Childhood Education (55220) CIP 13.1210

 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">EDU-119 Introduction to Early Childhood Education</a>	<u>4.00</u>
<a href="#">EDU-131 Child, Family, and Community</a>	<u>3.00</u>
<a href="#">EDU-146 Child Guidance</a>	<u>3.00</u>
<a href="#">EDU-151 Creative Activities</a>	<u>3.00</u>
<a href="#">WBL-110 World of Work</a>	<u>1.00</u>

**Credits: 14**

## Total Credits To Complete

**14**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Electrical Systems Technology

## Electrical Systems Technology

(35130) CIP 46.0302

🕒 Last updated on Sept. 24, 2019, 11:52 a.m.

The electrical system technology 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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Electrical Systems Technology Associate in Applied Science Degree A35130](#) »

[64 SHC total](#)

[Electrical Systems Technology Diploma D35130](#) »

[40 SHC total](#)

[CCPP Electrical Systems Technology Diploma D35130PB](#) »

[37 SHC total](#)

[Electrical Systems Technology Industrial Motor Control Certificate C35130MO](#) »

[17 SHC total](#)

[CCPP Electrical Systems Technology Certificate C35130PB](#) »

[16 SHC total](#)

[Electrical Systems Technology Basic Certificate C35130BA](#) »

[16 SHC total](#)

[Electrical Systems Technology Wiring and the NEC Certificate C35130NE](#) »

[12 SHC total](#)

### Additional Information:

#### ACADEMIC PLANS:

[A55130 AAS](#), [D35130 Diploma](#), [C35130MO Industrial Motor Control Certificate](#), [C35130BA Basic Certificate](#), [C35130NE Wiring and the NEC Certificate](#)

### Notes:

For additional information regarding this program, contact the chair, Joe Christie, [joe.christie@rccc.edu](mailto:joe.christie@rccc.edu).

### Faculty Mentors:

Joe Christie

Chair

James Lynn Hauss

Lead Faculty

✉ [joe.christie@rccc.edu](mailto:joe.christie@rccc.edu)

☎ [704-216-3908](tel:704-216-3908)

📍 CBTC

✉ [james.hauss@rccc.edu](mailto:james.hauss@rccc.edu)

☎ [704-216-3916](tel:704-216-3916)

📍 CBTC

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electrical Systems Technology](#) / A35130

## Electrical Systems Technology Associate in Applied Science Degree A35130

Electrical Systems Technology (35130) CIP 46.0302





🕒 Last updated on Jan. 15, 2020, 9:31 a.m.

The following is a suggested degree map for completing this degree in six semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:




Take the following courses.

 <a href="#">ELC-112 DC/AC Electricity</a>	<u>5.00</u>
 <a href="#">ELC-113 Residential Wiring</a>	<u>4.00</u>
 <a href="#">ELC-118 National Electrical Code</a>	<u>2.00</u>
 <a href="#">ELC-126 Electrical Computations</a>	<u>3.00</u>

**Credits: 14**

### First Year Spring:

Take the following courses.

 <a href="#">ELC-117 Motors and Controls</a>	<u>4.00</u>
 <a href="#">ELC-125 Diagrams and Schematics</a>	<u>2.00</u>
 <a href="#">ELC-128 Introduction to Programmable LogicController</a>	<u>3.00</u>
<a href="#">EGR-125 Appl Software for Tech</a>	<u>2.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 14**

### First Year Summer:

Take one of the following natural sciences/math courses.

<a href="#">MAT-110 Mathematical Measurement and Literacy</a>	<u>3.00</u>
<a href="#">MAT-121 Algebra/Trigonometry I</a>	<u>3.00</u>
<a href="#">PHY-110 Conceptual Physics</a>	<u>3.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 6-7**

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## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <u>ELC-119 NEC Calculations</u>	<u>2.00</u>
<u>CST-131 OSHA/Safety/Certification</u>	<u>3.00</u>
<u>ENG-111 Writing and Inquiry</u>	<u>3.00</u>

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Take 4 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 12**

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## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <u>ELC-115 Industrial Wiring</u>	<u>4.00</u>
<u>AHR-120 HVACR Maintenance</u>	<u>2.00</u>
<u>ELC-215 Electrical Maintenance</u>	<u>3.00</u>

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Take one of the following communication courses.

<u>COM-231 Public Speaking</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>

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**Credits: 12**

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## Second Year Summer:

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>

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<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of social/behavioral science courses.

<u>ANT-210 General Anthropology</u>	<u>3.00</u>
<u>ANT-220 Cultural Anthropology</u>	<u>3.00</u>
<u>ANT-230 Physical Anthropology</u>	<u>3.00</u>
<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology</u>	<u>3.00</u>



<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>
<u>PSY-243 Child Psychology.</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology.</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality.</u>	<u>3.00</u>
<u>PSY-275 Health Psychology.</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology.</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family.</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>

SOC-240 Social Psychology 3.00

SOC-242 Sociology of Deviance 3.00

SOC-250 Sociology of Religion 3.00

**Credits: 6**

## MAJOR ELECTIVES Course List:

Select 10 semester hour credits (SHC) from the following courses. AHR coursework is limited to 7 SHC because AHR 120 is required and AHR coursework is limited to a total of 9 SHC. CST coursework is limited to 6 SHC because CST 131 is required and CST coursework is limited to a total of 9 SHC. EGR coursework is limited to 7 SHC because EGR 125 is required and EGR coursework is limited to a total of 9 SHC. BUS, CMT, DFT, ISC, and WLD coursework is limited to a total of 9 SHC. Also, WBL coursework is limited to a total of 6 SHC.

AHR-110 Introduction to Refrigeration 5.00

AHR-112 Heating Technology 4.00

AHR-113 Comfort Cooling 4.00

AHR-114 Heat Pump Technology 4.00

AHR-115 Refrigeration Systems 2.00

AHR-130 HVAC Controls 3.00

AHR-151 HVAC Duct Systems I 2.00

AHR-152 HVAC Duct Systems II 2.00

AHR-160 Refrigerant Certification 1.00

AHR-211 Residential System Design 3.00

AHR-212 Advanced Comfort Systems 4.00

AHR-213 HVACR Building Code 2.00

AHR-215 Commercial HVAC Controls 2.00

AHR-225 Commercial System Design 3.00

AHR-235 Refrigeration Design 3.00

AHR-245 Chiller Systems 2.00

AHR-255 Indoor Air Quality 2.00

AHR-263 Energy Management 2.00

BPR-111 Print Reading 2.00

BPR-121 Blueprint Reading-Mechanical 2.00

BPR-130 Print Reading-Construction 3.00

BUS-110 Introduction to Business 3.00

BUS-115 Business Law I 3.00

BUS-121 Business Math 3.00

BUS-125 Personal Finance 3.00

BUS-137 Principles of Management 3.00

BUS-153 Human Resource Management 3.00

<u>BUS-217 Entrepreneurship &amp; Business Plan</u>	<u>3.00</u>
<u>BUS-230 Small Business Management</u>	<u>3.00</u>
<u>BUS-234 Training and Development</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>
<u>BUS-253 Leadership and Management Skills</u>	<u>3.00</u>
<u>BUS-256 Recruiting, Selection, &amp; Personnel Planning</u>	<u>3.00</u>
<u>BUS-258 Compensation and Benefits</u>	<u>3.00</u>
<u>BUS-259 HRM Applications</u>	<u>3.00</u>
<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>CMT-120 Codes and Inspections</u>	<u>3.00</u>
<u>CMT-210 Construction Management Fundamentals</u>	<u>3.00</u>
<u>CMT-212 Total Safety Performance</u>	<u>3.00</u>
<u>CMT-214 Planning and Scheduling</u>	<u>3.00</u>
<u>CMT-216 Costs and Productivity</u>	<u>3.00</u>
<u>CMT-218 Human Relations Issues</u>	<u>3.00</u>
<u>CST-241 Planning/Estimating I</u>	<u>3.00</u>
<u>DFT-111 Technical Drafting I</u>	<u>2.00</u>
<u>DFT-112 Technical Drafting II</u>	<u>2.00</u>
<u>DFT-121 Introduction to GD&amp;T</u>	<u>2.00</u>
<u>DFT-151 CAD I</u>	<u>3.00</u>
<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>EGR-110 Intro to Engineering Tech</u>	<u>2.00</u>
<u>EGR-251 Statics</u>	<u>3.00</u>
<u>EGR-252 Strength of Materials</u>	<u>3.00</u>
<u>ELC-111 Introduction to Electricity</u>	<u>3.00</u>
<u>ELN-133 Digital Electronics</u>	<u>4.00</u>
<u>ELN-150 Computer-Aided Drafting for Electronics</u>	<u>2.00</u>
<u>ELN-232 Introduction to Microprocessors</u>	<u>4.00</u>
<u>ELN-234 Communication Systems</u>	<u>4.00</u>
<u>ELN-260 Prog Logic Controllers</u>	<u>4.00</u>
<u>ISC-112 Industrial Safety</u>	<u>2.00</u>
<u>ISC-113 Industrial Specifications</u>	<u>1.00</u>
<u>ISC-132 Manufacturing Quality Control</u>	<u>3.00</u>
<u>ISC-135 Principles of Industrial Management</u>	<u>4.00</u>
<u>ISC-136 Productivity Analysis I</u>	<u>3.00</u>
<u>ISC-214 Job Analysis/Wages &amp; Salary</u>	<u>3.00</u>

<u>ISC-220 Lean Manufacturing</u>	3.00
<u>ISC-225 Facility Layout</u>	4.00
<u>ISC-243 Production and Operations Management I</u>	3.00
<u>ISC-255 Engineering Economy</u>	3.00
<u>SST-140 Green Building and Design Concepts</u>	3.00
<u>WBL-110 World of Work</u>	1.00
<u>WBL-111 Work-Based Learning I</u>	1.00
<u>WBL-112 Work-Based Learning I</u>	2.00
<u>WBL-113 Work-Based Learning I</u>	3.00
<u>WBL-114 Work-Based Learning I</u>	4.00
<u>WBL-121 Work-Based Learning II</u>	1.00
<u>WBL-122 Work-Based Learning II</u>	2.00
<u>WBL-123 Work-Based Learning II</u>	3.00
<u>WBL-131 Work-Based Learning III</u>	1.00
<u>WBL-132 Work-Based Learning III</u>	2.00
<u>WBL-211 Work-Based Learning IV</u>	1.00
<u>WLD-110 Cutting Processes</u>	2.00
<u>WLD-112 Basic Welding Processes</u>	2.00
<u>WLD-115 SMAW (Stick) Plate</u>	5.00
<u>WLD-116 SMAW (stick) Plate/Pipe</u>	4.00
<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	4.00
<u>WLD-122 GMAW (MIG) Plate/Pipe</u>	3.00
<u>WLD-131 GTAW (TIG) Plate</u>	4.00
<u>WLD-132 GTAW (TIG) Plate/Pipe</u>	3.00
<u>WLD-141 Symbols and Specifications</u>	3.00
<u>WLD-143 Welding Metallurgy</u>	2.00
<u>WLD-151 Fabrication I</u>	4.00
<u>WLD-215 SMAW (stick) Pipe</u>	4.00
<u>WLD-231 GTAW (TIG) Pipe</u>	3.00
<u>WLD-261 Certification Practices</u>	2.00
<u>WLD-265 Automated Welding/Cutting</u>	4.00

Total Credits To Complete

64

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electrical Systems Technology](#) / D35130

## Electrical Systems Technology Diploma D35130

Electrical Systems Technology (35130) CIP 46.0302




🕒 Last updated on Jan. 15, 2020, 9:42 a.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">ELC-112 DC/AC Electricity</a>	<a href="#">5.00</a>
 <a href="#">ELC-113 Residential Wiring</a>	<a href="#">4.00</a>
 <a href="#">ELC-119 NEC Calculations</a>	<a href="#">2.00</a>
<a href="#">CST-131 OSHA/Safety/Certification</a>	<a href="#">3.00</a>
<a href="#">ELC-118 National Electrical Code</a>	<a href="#">2.00</a>
<a href="#">ELC-126 Electrical Computations</a>	<a href="#">3.00</a>

**Credits: 19**

### First Year Spring:

Take the following courses.

 <a href="#">ELC-117 Motors and Controls</a>	<a href="#">4.00</a>
<a href="#">EGR-125 Appl Software for Tech</a>	<a href="#">2.00</a>
<a href="#">ELC-115 Industrial Wiring</a>	<a href="#">4.00</a>
<a href="#">ELC-125 Diagrams and Schematics</a>	<a href="#">2.00</a>
<a href="#">ELC-128 Introduction to Programmable LogicController</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 18**

### First Year Summer:

Take 3 semester hour credits from the following general education courses.

<a href="#">ANT-210 General Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-220 Cultural Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-230 Physical Anthropology</a>	<a href="#">3.00</a>
<a href="#">ANT-230A Physical Anthropology Lab</a>	<a href="#">1.00</a>

<u>ANT-240 Archaeology</u>	<u>3.00</u>
<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>COM-231 Public Speaking</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography</u>	<u>3.00</u>

<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>HUM-110 Technology and Society.</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MAT-110 Mathematical Measurement and Literacy.</u>	<u>3.00</u>
<u>MAT-121 Algebra/Trigonometry I</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>
<u>PSY-243 Child Psychology.</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology.</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>

<u>PSY-259 Human Sexuality.</u>	<u>3.00</u>
<u>PSY-275 Health Psychology.</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology.</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family.</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology.</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

**Credits: 5**

Total Credits To Complete

**40**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electrical Systems Technology](#) / C35130MO

## Electrical Systems Technology Industrial Motor Control Certificate C35130MO

Electrical Systems Technology (35130) CIP 46.0302

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">ELC-112 DC/AC Electricity</a>	<u>5.00</u>
<a href="#">ELC-126 Electrical Computations</a>	<u>3.00</u>

**Credits: 8**

### First Year Spring:

Take the following courses.

<a href="#">ELC-117 Motors and Controls</a>	<u>4.00</u>
<a href="#">ELC-125 Diagrams and Schematics</a>	<u>2.00</u>
<a href="#">ELC-128 Introduction to Programmable LogicController</a>	<u>3.00</u>

**Credits: 9**

## Total Credits To Complete

**17**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electrical Systems Technology](#) / C35130BA

## Electrical Systems Technology Basic Certificate C35130BA

Electrical Systems Technology (35130) CIP 46.0302

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">CST-131 OSHA/Safety/Certification</a>	<u>3.00</u>
<a href="#">ELC-112 DC/AC Electricity</a>	<u>5.00</u>
<a href="#">ELC-113 Residential Wiring</a>	<u>4.00</u>
<a href="#">ELC-118 National Electrical Code</a>	<u>2.00</u>

**Credits: 14**

### First Year Spring:

Take the following courses.

<a href="#">ELC-125 Diagrams and Schematics</a>	<u>2.00</u>
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**Credits: 2**

## Total Credits To Complete

**16**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electrical Systems Technology](#) / C35130NE

## Electrical Systems Technology Wiring and the NEC Certificate C35130NE

### Electrical Systems Technology (35130) CIP 46.0302

🕒 Last updated on Aug. 23, 2019, 8:48 a.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">ELC-113 Residential Wiring</a>	<u>4.00</u>
<a href="#">ELC-118 National Electrical Code</a>	<u>2.00</u>
<a href="#">ELC-119 NEC Calculations</a>	<u>2.00</u>

**Credits: 8**

### First Year Spring:

Take the following courses.

<a href="#">ELC-115 Industrial Wiring</a>	<u>4.00</u>
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**Credits: 4**

## Total Credits To Complete

**12**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electrical Systems Technology](#) / D35130PB

## CCPP Electrical Systems Technology Diploma D35130PB

Electrical Systems Technology (35130) CIP 46.0302

 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">EGR-125 Appl Software for Tech</a>	<u>2.00</u>
<a href="#">ELC-112 DC/AC Electricity</a>	<u>5.00</u>
<a href="#">ELC-113 Residential Wiring</a>	<u>4.00</u>
<a href="#">ELC-115 Industrial Wiring</a>	<u>4.00</u>
<a href="#">ELC-117 Motors and Controls</a>	<u>4.00</u>
<a href="#">ELC-118 National Electrical Code</a>	<u>2.00</u>
<a href="#">ELC-119 NEC Calculations</a>	<u>2.00</u>
<a href="#">ELC-125 Diagrams and Schematics</a>	<u>2.00</u>
<a href="#">ELC-126 Electrical Computations</a>	<u>3.00</u>
<a href="#">ELC-128 Introduction to Programmable LogicController</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>

**Credits: 37**

## Total Credits To Complete

**37**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electrical Systems Technology](#) / C35130PB

## CCPP Electrical Systems Technology Certificate C35130PB

Electrical Systems Technology (35130) CIP 46.0302

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">CST-131 OSHA/Safety/Certification</a>	<u>3.00</u>
<a href="#">ELC-112 DC/AC Electricity</a>	<u>5.00</u>
<a href="#">ELC-113 Residential Wiring</a>	<u>4.00</u>
<a href="#">ELC-118 National Electrical Code</a>	<u>2.00</u>
<a href="#">ELC-125 Diagrams and Schematics</a>	<u>2.00</u>

**Credits: 16**

# Total Credits To Complete

**16**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Electronics Engineering Technology

## Electronics Engineering Technology (40200) CIP 15.0303

🕒 Last updated on Sept. 24, 2019, 11:54 a.m.

The electronics engineering technology curriculum prepares students to apply basic engineering principles and technical skills in electrical maintenance and management or in the design, planning, construction, development, and installation of electrical systems, machines, and power generating equipment. Students are prepared through the study and application of principles from mathematics, natural sciences, and technology and applied processes in electrical engineering.

Coursework includes mathematics, natural sciences, engineering sciences and technology. Instruction covers electrical circuitry, prototype development and testing, systems analysis and testing, systems maintenance, instrument calibration, and report preparation.

Graduates should qualify for employment as technicians, engineering assistants, technical managers, or salespersons in electrical generation/distribution, industrial maintenance, electronic repair, or other fields requiring a broad-based knowledge of electrical and electronic concepts.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Electronics Engineering Technology Associate in Applied Science Degree A40200](#) >>

[64 SHC total](#)

[Electronics Engineering Technology Diploma D40200](#) >>

[36 SHC total](#)

[Electronics Engineering Technology Certificate C40200](#) >>

[16 SHC total](#)

[CCPP Electronics Engineering Technology Certificate C40200PB](#) >>

[16 SHC total](#)

### Additional Information:

**ACADEMIC PLANS:** [A40200 AAS](#), [D40200 Diploma](#), [C40200 Certificate](#)

### Notes:

For additional information regarding this program, contact the chair, Tony Bean, [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu).

### Faculty Mentors:

Tony Bean

*Chair*

✉ [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu)

📞 [704-216-3917](tel:704-216-3917)

📍 Advanced Technology Center at NCRC

Jim de Friess

*Lead Faculty*

✉ [jim.defriess@rccc.edu](mailto:jim.defriess@rccc.edu)

📞 [704-216-3490](tel:704-216-3490)

📍 Advanced Technology Center at NCRC

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electronics Engineering Technology](#) / A40200

## Electronics Engineering Technology Associate in Applied Science Degree A40200

Electronics Engineering Technology (40200) CIP 15.0303

🕒 Last updated on March 5, 2020, 10:50 a.m.

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">ELC-138 DC Circuit Analysis</a>	4.00
<input checked="" type="checkbox"/> <a href="#">ELN-133 Digital Electronics</a>	4.00

Take 6 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 14**

### First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">ELC-139 AC Circuit Analysis</a>	4.00
<input checked="" type="checkbox"/> <a href="#">ELN-131 Analog Electronics I</a>	4.00
<a href="#">ENG-111 Writing and Inquiry</a>	3.00

Take one of the following math courses.

<a href="#">MAT-121 Algebra/Trigonometry I</a>	3.00
<a href="#">MAT-171 Precalculus Algebra</a>	4.00

**Credits: 14-15**

### First Year Summer:

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	3.00
<a href="#">ART-114 Art History Survey I</a>	3.00
<a href="#">ART-115 Art History Survey II</a>	3.00
<a href="#">ART-121 Two-Dimensional Design</a>	3.00

<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>



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<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>
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Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

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<u>ANT-210 General Anthropology.</u>	<u>3.00</u>
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<u>ANT-220 Cultural Anthropology.</u>	<u>3.00</u>
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<u>ANT-230 Physical Anthropology.</u>	<u>3.00</u>
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<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
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<u>ANT-240 Archaeology.</u>	<u>3.00</u>
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<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
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<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
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<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
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<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
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<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
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<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
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<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
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<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
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<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
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<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
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<u>HIS-131 American History I</u>	<u>3.00</u>
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<u>HIS-132 American History II</u>	<u>3.00</u>
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<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
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<u>HIS-221 African-American History.</u>	<u>3.00</u>
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<u>HIS-226 The Civil War</u>	<u>3.00</u>
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<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
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<u>POL-120 American Government</u>	<u>3.00</u>
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<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
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<u>POL-220 International Relations</u>	<u>3.00</u>
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<u>PSY-110 Life Span Development</u>	<u>3.00</u>
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<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
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<u>PSY-150 General Psychology.</u>	<u>3.00</u>
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<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
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<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
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<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
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<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>
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<u>PSY-243 Child Psychology.</u>	<u>3.00</u>
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<u>PSY-246 Adolescent Psychology.</u>	<u>3.00</u>
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<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality</u>	<u>3.00</u>
<u>PSY-275 Health Psychology</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

**Credits: 6**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <u>ELN-132 Analog Electronics II</u>	<u>4.00</u>
<input checked="" type="checkbox"/> <u>ELN-234 Communication Systems</u>	<u>4.00</u>

Take 7 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

## Second Year Spring:

Take the following courses

<input checked="" type="checkbox"/> <u>ELN-232 Introduction to Microprocessors</u>	<u>4.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>

Take 8 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

## MAJOR ELECTIVES Course List:

Select 21 semester hour credits (SHC) from the following courses. This may include up to 4 SHC from WBL course/combination of courses. Courses with the prefix AHR, BIO, CHM, CSC, CTI, CTS, DFT, EGR, ISC, MAT, MEC, NET, PHY, SEC, and WLD are limited to a total of 9 SHC each.

<u>AHR-110 Introduction to Refrigeration</u>	<u>5.00</u>
<u>AHR-112 Heating Technology</u>	<u>4.00</u>
<u>AHR-113 Comfort Cooling</u>	<u>4.00</u>
<u>AHR-114 Heat Pump Technology</u>	<u>4.00</u>

<u>AHR-115 Refrigeration Systems</u>	<u>2.00</u>
<u>AHR-151 HVAC Duct Systems I</u>	<u>2.00</u>
<u>AHR-152 HVAC Duct Systems II</u>	<u>2.00</u>
<u>AHR-160 Refrigerant Certification</u>	<u>1.00</u>
<u>AHR-211 Residential System Design</u>	<u>3.00</u>
<u>AHR-212 Advanced Comfort Systems</u>	<u>4.00</u>
<u>AHR-213 HVACR Building Code</u>	<u>2.00</u>
<u>AHR-225 Commercial System Design</u>	<u>3.00</u>
<u>AHR-235 Refrigeration Design</u>	<u>3.00</u>
<u>AHR-245 Chiller Systems</u>	<u>2.00</u>
<u>AHR-255 Indoor Air Quality</u>	<u>2.00</u>
<u>ATR-112 Intro to Automation</u>	<u>3.00</u>
<u>ATR-281 Automated Manufacturing</u>	<u>4.00</u>
<u>BIO-110 Principles of Biology</u>	<u>4.00</u>
<u>BIO-111 General Biology I</u>	<u>4.00</u>
<u>BIO-112 General Biology II</u>	<u>4.00</u>
<u>BIO-140 Environmental Biology</u>	<u>3.00</u>
<u>BIO-163 Basic Anatomy &amp; Physiology</u>	<u>5.00</u>
<u>BIO-168 Anatomy and Physiology I</u>	<u>4.00</u>
<u>BIO-169 Anatomy and Physiology II</u>	<u>4.00</u>
<u>BIO-250 Genetics</u>	<u>4.00</u>
<u>BIO-275 Microbiology</u>	<u>4.00</u>
<u>BPR-111 Print Reading</u>	<u>2.00</u>
<u>BPR-121 Blueprint Reading-Mechanical</u>	<u>2.00</u>
<u>BPR-130 Print Reading-Construction</u>	<u>3.00</u>
<u>CHM-121 Foundations of Chemistry</u>	<u>3.00</u>
<u>CHM-131 Introduction to Chemistry</u>	<u>3.00</u>
<u>CHM-131A Introduction to Chemistry Lab</u>	<u>1.00</u>
<u>CHM-132 Organic and Biochemistry</u>	<u>4.00</u>
<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>CHM-152 General Chemistry II</u>	<u>4.00</u>
<u>CHM-251 Organic Chemistry I</u>	<u>4.00</u>
<u>CHM-252 Organic Chemistry II</u>	<u>4.00</u>
<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>CIS-115 Intro to Programming &amp; Logic</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>

<u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>CSC-153 C# Programming</u>	<u>3.00</u>
<u>CSC-251 Advanced JAVA Programming</u>	<u>3.00</u>
<u>CSC-253 Advanced C# Programming</u>	<u>3.00</u>
<u>CTI-110 Web, Programming, and Database Foundation</u>	<u>3.00</u>
<u>CTI-120 Network and Security Foundation</u>	<u>3.00</u>
<u>CTI-130 Os and Device Foundation</u>	<u>6.00</u>
<u>CTI-140 Virtualization Concepts</u>	<u>3.00</u>
<u>CTS-115 Information Systems Business Concepts</u>	<u>3.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>CTS-155 Tech Support Functions</u>	<u>3.00</u>
<u>CTS-230 Advanced Spreadsheet</u>	<u>3.00</u>
<u>CTS-240 Project Management</u>	<u>3.00</u>
<u>DBA-110 Database Concepts</u>	<u>3.00</u>
<u>DBA-120 Database Programming I</u>	<u>3.00</u>
<u>DFT-111 Technical Drafting I</u>	<u>2.00</u>
<u>DFT-112 Technical Drafting II</u>	<u>2.00</u>
<u>DFT-121 Introduction to GD&amp;T</u>	<u>2.00</u>
<u>DFT-151 CAD I</u>	<u>3.00</u>
<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>EGR-110 Intro to Engineering Tech</u>	<u>2.00</u>
<u>EGR-125 Appl Software for Tech</u>	<u>2.00</u>
<u>EGR-251 Statics</u>	<u>3.00</u>
<u>EGR-252 Strength of Materials</u>	<u>3.00</u>
<u>ELC-113 Residential Wiring</u>	<u>4.00</u>
<u>ELC-115 Industrial Wiring</u>	<u>4.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-118 National Electrical Code</u>	<u>2.00</u>
<u>ELC-119 NEC Calculations</u>	<u>2.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>
<u>ELC-126 Electrical Computations</u>	<u>3.00</u>
<u>ELC-128 Introduction to Programmable Logic Controller</u>	<u>3.00</u>
<u>ELC-130 Advanced Motors/Controls</u>	<u>3.00</u>
<u>ELC-213 Instrumentation</u>	<u>4.00</u>
<u>ELC-215 Electrical Maintenance</u>	<u>3.00</u>

<u>ELN-150 Computer Aided Drafting for Electronics</u>	<u>2.00</u>
<u>ELN-260 Prog Logic Controllers</u>	<u>4.00</u>
<u>HYD-110 Hydraulics/Pneumatics I</u>	<u>3.00</u>
<u>ISC-112 Industrial Safety</u>	<u>2.00</u>
<u>ISC-113 Industrial Specifications</u>	<u>1.00</u>
<u>ISC-132 Manufacturing Quality Control</u>	<u>3.00</u>
<u>ISC-135 Principles of Industrial Management</u>	<u>4.00</u>
<u>ISC-136 Productivity Analysis I</u>	<u>3.00</u>
<u>ISC-214 Job Analysis/Wages &amp; Salary</u>	<u>3.00</u>
<u>ISC-220 Lean Manufacturing</u>	<u>3.00</u>
<u>ISC-225 Facility Layout</u>	<u>4.00</u>
<u>ISC-243 Production and Operations Management I</u>	<u>3.00</u>
<u>ISC-255 Engineering Economy</u>	<u>3.00</u>
<u>MAT-143 Quantitative Literacy</u>	<u>3.00</u>
<u>MAT-152 Statistical Methods I</u>	<u>4.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-263 Brief Calculus</u>	<u>4.00</u>
<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MAT-272 Calculus II</u>	<u>4.00</u>
<u>MAT-273 Calculus III</u>	<u>4.00</u>
<u>MEC-110 Introduction to CAD/CAM</u>	<u>2.00</u>
<u>MEC-111 Machine Processes I</u>	<u>3.00</u>
<u>MEC-142 Physical Metallurgy</u>	<u>2.00</u>
<u>MEC-145 Manufacturing Materials I</u>	<u>3.00</u>
<u>MEC-231 Computer-Aided Manufacturing I</u>	<u>3.00</u>
<u>MEC-232 Computer-Aided Manufacturing II</u>	<u>3.00</u>
<u>MEC-265 Fluid Mechanics</u>	<u>3.00</u>
<u>MEC-275 Engineering Mechanisms</u>	<u>3.00</u>
<u>NET-110 Networking Concepts</u>	<u>3.00</u>
<u>NET-125 Introduction to Networks</u>	<u>3.00</u>
<u>NET-126 Routing Basics</u>	<u>3.00</u>
<u>NET-175 Wireless Technology</u>	<u>3.00</u>
<u>NET-225 Routing &amp; Switching I</u>	<u>3.00</u>
<u>NET-226 Routing and Switching II</u>	<u>3.00</u>
<u>NOS-120 Linux/UNIX Single User</u>	<u>3.00</u>
<u>NOS-130 Windows Single User</u>	<u>3.00</u>

<u>NOS-230 Windows Administration I</u>	3.00
<u>OMT-241 Logistics</u>	3.00
<u>PHY-110 Conceptual Physics</u>	3.00
<u>PHY-110A Conceptual Physics Lab</u>	1.00
<u>PHY-131 Physics-Mechanics</u>	4.00
<u>PHY-132 Physics-Electricity &amp; Magnetism</u>	4.00
<u>PHY-151 College Physics I</u>	4.00
<u>PHY-152 College Physics II</u>	4.00
<u>PHY-251 General Physics I</u>	4.00
<u>PHY-252 General Physics II</u>	4.00
<u>SEC-110 Security Concepts</u>	3.00
<u>SEC-150 Secure Communications</u>	3.00
<u>SEC-160 Security Administration I</u>	3.00
<u>SEC-210 Intrusion Detection</u>	3.00
<u>SST-140 Green Building and Design Concepts</u>	3.00
<u>WBL-110 World of Work</u>	1.00
<u>WBL-111 Work-Based Learning I</u>	1.00
<u>WBL-112 Work-Based Learning I</u>	2.00
<u>WBL-113 Work-Based Learning I</u>	3.00
<u>WBL-121 Work-Based Learning II</u>	1.00
<u>WBL-122 Work-Based Learning II</u>	2.00
<u>WBL-123 Work-Based Learning II</u>	3.00
<u>WEB-110 Internet/Web Fundamentals</u>	3.00
<u>WEB-187 Programming for Mobile Devices</u>	3.00
<u>WLD-110 Cutting Processes</u>	2.00
<u>WLD-112 Basic Welding Processes</u>	2.00
<u>WLD-115 SMAW (Stick) Plate</u>	5.00
<u>WLD-116 SMAW (stick) Plate/Pipe</u>	4.00
<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	4.00
<u>WLD-122 GMAW (MIG) Plate/Pipe</u>	3.00
<u>WLD-131 GTAW (TIG) Plate</u>	4.00
<u>WLD-132 GTAW (TIG) Plate/Pipe</u>	3.00
<u>WLD-141 Symbols and Specifications</u>	3.00
<u>WLD-143 Welding Metallurgy</u>	2.00
<u>WLD-151 Fabrication I</u>	4.00
<u>WLD-215 SMAW (stick) Pipe</u>	4.00
<u>WLD-231 GTAW (TIG) Pipe</u>	3.00

WLD-261 Certification Practices

2.00

WLD-265 Automated Welding/Cutting

4.00

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## Additional Information:

# Transfer Students

Suggested Major Electives for students planning to transfer to UNC-C are CSC 134, ELN 150, MAT 171, MAT 172, MAT 271, PHY 151, and PHY 152.

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# Total Credits To Complete

**64**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electronics Engineering Technology](#) / D40200

## Electronics Engineering Technology Diploma D40200

Electronics Engineering Technology (40200) CIP 15.0303

🕒 Last updated on Feb. 21, 2020, 4:20 p.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.



 <a href="#">ELC-138 DC Circuit Analysis</a>	<u>4.00</u>
 <a href="#">ELN-133 Digital Electronics</a>	<u>4.00</u>

Take 6 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 14**

### First Year Spring:

Take the following courses.

 <a href="#">ELC-139 AC Circuit Analysis</a>	<u>4.00</u>
 <a href="#">ELN-131 Analog Electronics I</a>	<u>4.00</u>
 <a href="#">ELN-232 Introduction to Microprocessors</a>	<u>4.00</u>


Take one of the following math courses.

<a href="#">MAT-121 Algebra/Trigonometry I</a>	<u>3.00</u>
<a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>

**Credits: 15-16**

### Second Year Fall:

Take the following courses.

 <a href="#">ELN-234 Communication Systems</a>	<u>4.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

**Credits: 7**

### MAJOR ELECTIVES Course List:



Select 6 semester hour credits (SHC) from the following courses. This may include up to 3 SHC from WBL course/combination of courses.

<u>AHR-110 Introduction to Refrigeration</u>	<u>5.00</u>
<u>AHR-112 Heating Technology</u>	<u>4.00</u>
<u>AHR-113 Comfort Cooling</u>	<u>4.00</u>
<u>AHR-114 Heat Pump Technology</u>	<u>4.00</u>
<u>AHR-115 Refrigeration Systems</u>	<u>2.00</u>
<u>AHR-151 HVAC Duct Systems I</u>	<u>2.00</u>
<u>AHR-152 HVAC Duct Systems II</u>	<u>2.00</u>
<u>AHR-160 Refrigerant Certification</u>	<u>1.00</u>
<u>AHR-211 Residential System Design</u>	<u>3.00</u>
<u>AHR-212 Advanced Comfort Systems</u>	<u>4.00</u>
<u>AHR-213 HVACR Building Code</u>	<u>2.00</u>
<u>AHR-225 Commercial System Design</u>	<u>3.00</u>
<u>AHR-235 Refrigeration Design</u>	<u>3.00</u>
<u>AHR-245 Chiller Systems</u>	<u>2.00</u>
<u>AHR-255 Indoor Air Quality</u>	<u>2.00</u>
<u>ATR-112 Intro to Automation</u>	<u>3.00</u>
<u>ATR-281 Automated Manufacturing</u>	<u>4.00</u>
<u>BIO-110 Principles of Biology</u>	<u>4.00</u>
<u>BIO-111 General Biology I</u>	<u>4.00</u>
<u>BIO-112 General Biology II</u>	<u>4.00</u>
<u>BIO-140 Environmental Biology</u>	<u>3.00</u>
<u>BIO-163 Basic Anatomy &amp; Physiology</u>	<u>5.00</u>
<u>BIO-168 Anatomy and Physiology I</u>	<u>4.00</u>
<u>BIO-169 Anatomy and Physiology II</u>	<u>4.00</u>
<u>BIO-250 Genetics</u>	<u>4.00</u>
<u>BIO-275 Microbiology</u>	<u>4.00</u>
<u>BPR-111 Print Reading</u>	<u>2.00</u>
<u>BPR-121 Blueprint Reading-Mechanical</u>	<u>2.00</u>
<u>BPR-130 Print Reading-Construction</u>	<u>3.00</u>
<u>CHM-121 Foundations of Chemistry</u>	<u>3.00</u>
<u>CHM-131 Introduction to Chemistry</u>	<u>3.00</u>
<u>CHM-131A Introduction to Chemistry Lab</u>	<u>1.00</u>
<u>CHM-132 Organic and Biochemistry</u>	<u>4.00</u>
<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>CHM-152 General Chemistry II</u>	<u>4.00</u>

<u>CHM-251 Organic Chemistry I</u>	<u>4.00</u>
<u>CHM-252 Organic Chemistry II</u>	<u>4.00</u>
<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>CIS-115 Intro to Programming &amp; Logic</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>
<u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>CSC-153 C# Programming</u>	<u>3.00</u>
<u>CSC-251 Advanced JAVA Programming</u>	<u>3.00</u>
<u>CSC-253 Advanced C# Programming</u>	<u>3.00</u>
<u>CTI-110 Web, Programming, and Database Foundation</u>	<u>3.00</u>
<u>CTI-120 Network and Security Foundation</u>	<u>3.00</u>
<u>CTI-130 Os and Device Foundation</u>	<u>6.00</u>
<u>CTI-140 Virtualization Concepts</u>	<u>3.00</u>
<u>CTS-115 Information Systems Business Concepts</u>	<u>3.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>CTS-155 Tech Support Functions</u>	<u>3.00</u>
<u>CTS-230 Advanced Spreadsheet</u>	<u>3.00</u>
<u>CTS-240 Project Management</u>	<u>3.00</u>
<u>DBA-110 Database Concepts</u>	<u>3.00</u>
<u>DBA-120 Database Programming I</u>	<u>3.00</u>
<u>DFT-111 Technical Drafting I</u>	<u>2.00</u>
<u>DFT-112 Technical Drafting II</u>	<u>2.00</u>
<u>DFT-121 Introduction to GD&amp;T</u>	<u>2.00</u>
<u>DFT-151 CAD I</u>	<u>3.00</u>
<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>EGR-110 Intro to Engineering Tech</u>	<u>2.00</u>
<u>EGR-125 Appl Software for Tech</u>	<u>2.00</u>
<u>EGR-251 Statics</u>	<u>3.00</u>
<u>EGR-252 Strength of Materials</u>	<u>3.00</u>
<u>ELC-113 Residential Wiring</u>	<u>4.00</u>
<u>ELC-115 Industrial Wiring</u>	<u>4.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-118 National Electrical Code</u>	<u>2.00</u>
<u>ELC-119 NEC Calculations</u>	<u>2.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>

<u>ELC-126 Electrical Computations</u>	<u>3.00</u>
<u>ELC-128 Introduction to Programmable LogicController</u>	<u>3.00</u>
<u>ELC-130 Advanced Motors/Controls</u>	<u>3.00</u>
<u>ELC-213 Instrumentation</u>	<u>4.00</u>
<u>ELC-215 Electrical Maintenance</u>	<u>3.00</u>
<u>ELN-150 Computer-Aided Drafting for Electronics</u>	<u>2.00</u>
<u>ELN-260 Prog.Logic Controllers</u>	<u>4.00</u>
<u>HYD-110 Hydraulics/Pneumatics I</u>	<u>3.00</u>
<u>ISC-112 Industrial Safety</u>	<u>2.00</u>
<u>ISC-113 Industrial Specifications</u>	<u>1.00</u>
<u>ISC-132 Manufacturing Quality Control</u>	<u>3.00</u>
<u>ISC-135 Principles of Industrial Management</u>	<u>4.00</u>
<u>ISC-136 Productivity Analysis I</u>	<u>3.00</u>
<u>ISC-214 Job Analysis/Wages &amp; Salary</u>	<u>3.00</u>
<u>ISC-220 Lean Manufacturing</u>	<u>3.00</u>
<u>ISC-225 Facility Layout</u>	<u>4.00</u>
<u>ISC-243 Production and Operations Management I</u>	<u>3.00</u>
<u>ISC-255 Engineering Economy</u>	<u>3.00</u>
<u>MAT-143 Quantitative Literacy</u>	<u>3.00</u>
<u>MAT-152 Statistical Methods I</u>	<u>4.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-263 Brief Calculus</u>	<u>4.00</u>
<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MAT-272 Calculus II</u>	<u>4.00</u>
<u>MAT-273 Calculus III</u>	<u>4.00</u>
<u>MEC-110 Introduction to CAD/CAM</u>	<u>2.00</u>
<u>MEC-111 Machine Processes I</u>	<u>3.00</u>
<u>MEC-142 Physical Metallurgy</u>	<u>2.00</u>
<u>MEC-145 Manufacturing Materials I</u>	<u>3.00</u>
<u>MEC-231 Computer-Aided Manufacturing I</u>	<u>3.00</u>
<u>MEC-232 Computer-Aided Manufacturing II</u>	<u>3.00</u>
<u>MEC-265 Fluid Mechanics</u>	<u>3.00</u>
<u>MEC-275 Engineering Mechanisms</u>	<u>3.00</u>
<u>NET-110 Networking Concepts</u>	<u>3.00</u>
<u>NET-125 Introduction to Networks</u>	<u>3.00</u>
<u>NET-126 Routing Basics</u>	<u>3.00</u>

<u>NET-175 Wireless Technology</u>	<u>3.00</u>
<u>NET-225 Routing &amp; Switching I</u>	<u>3.00</u>
<u>NET-226 Routing and Switching II</u>	<u>3.00</u>
<u>NOS-120 Linux/UNIX Single User</u>	<u>3.00</u>
<u>NOS-130 Windows Single User</u>	<u>3.00</u>
<u>NOS-230 Windows Administration I</u>	<u>3.00</u>
<u>OMT-241 Logistics</u>	<u>3.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>
<u>PHY-110A Conceptual Physics Lab</u>	<u>1.00</u>
<u>PHY-131 Physics-Mechanics</u>	<u>4.00</u>
<u>PHY-132 Physics-Electricity &amp; Magnetism</u>	<u>4.00</u>
<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>PHY-152 College Physics II</u>	<u>4.00</u>
<u>PHY-251 General Physics I</u>	<u>4.00</u>
<u>PHY-252 General Physics II</u>	<u>4.00</u>
<u>SEC-110 Security Concepts</u>	<u>3.00</u>
<u>SEC-150 Secure Communications</u>	<u>3.00</u>
<u>SEC-160 Security Administration I</u>	<u>3.00</u>
<u>SEC-210 Intrusion Detection</u>	<u>3.00</u>
<u>SST-140 Green Building and Design Concepts</u>	<u>3.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WBL-122 Work-Based Learning II</u>	<u>2.00</u>
<u>WBL-123 Work-Based Learning II</u>	<u>3.00</u>
<u>WEB-110 Internet/Web Fundamentals</u>	<u>3.00</u>
<u>WEB-187 Programming for Mobile Devices</u>	<u>3.00</u>
<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
<u>WLD-112 Basic Welding Processes</u>	<u>2.00</u>
<u>WLD-115 SMAW (Stick) Plate</u>	<u>5.00</u>
<u>WLD-116 SMAW (stick) Plate/Pipe</u>	<u>4.00</u>
<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	<u>4.00</u>
<u>WLD-122 GMAW (MIG) Plate/Pipe</u>	<u>3.00</u>
<u>WLD-131 GTAW (TIG) Plate</u>	<u>4.00</u>
<u>WLD-132 GTAW (TIG) Plate/Pipe</u>	<u>3.00</u>

<u>WLD-141 Symbols and Specifications</u>	<u>3.00</u>
<u>WLD-143 Welding Metallurgy</u>	<u>2.00</u>
<u>WLD-151 Fabrication I</u>	<u>4.00</u>
<u>WLD-215 SMAW (stick) Pipe</u>	<u>4.00</u>
<u>WLD-231 GTAW (TIG) Pipe</u>	<u>3.00</u>
<u>WLD-261 Certification Practices</u>	<u>2.00</u>
<u>WLD-265 Automated Welding/Cutting</u>	<u>4.00</u>

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## Total Credits To Complete

**36**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electronics Engineering Technology](#) / C40200

## Electronics Engineering Technology Certificate C40200

Electronics Engineering Technology (40200) CIP 15.0303

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">ELC-138 DC Circuit Analysis</a>	<u>4.00</u>
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<a href="#">ELN-133 Digital Electronics</a>	<u>4.00</u>
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**Credits: 8**

### First Year Spring:

Take the following courses.

<a href="#">ELC-139 AC Circuit Analysis</a>	<u>4.00</u>
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<a href="#">ELN-131 Analog Electronics I</a>	<u>4.00</u>
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**Credits: 8**

# Total Credits To Complete

**16**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Electronics Engineering Technology](#) / C40200PB

## CCPP Electronics Engineering Technology Certificate C40200PB

Electronics Engineering Technology (40200) CIP 15.0303

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">ELC-138 DC Circuit Analysis</a>	<u>4.00</u>
<a href="#">ELC-139 AC Circuit Analysis</a>	<u>4.00</u>
<a href="#">ELN-131 Analog Electronics I</a>	<u>4.00</u>
<a href="#">ELN-133 Digital Electronics</a>	<u>4.00</u>

**Credits: 16**

# Total Credits To Complete

**16**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Emergency Management

## Emergency Management (55460) CIP 43.0302

🕒 Last updated on Sept. 24, 2019, 11:58 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

<a href="#">Emergency Management Associate in Applied Science Degree A55460</a> <a href="#">64 SHC total</a>	»
<a href="#">Emergency Management Diploma D55460</a> <a href="#">41 SHC total</a>	»
<a href="#">Emergency Management Certificate C55460MG</a> <a href="#">18 SHC total</a>	»
<a href="#">Emergency Management Business Continuity Certificate C55460BC</a> <a href="#">16 SHC total</a>	»
<a href="#">Emergency Management Fire Investigations Certificate C55460FI</a> <a href="#">16 SHC total</a>	»
<a href="#">Emergency Management Response and Recovery Certificate C55460RR</a> <a href="#">15 SHC total</a>	»
<a href="#">Emergency Management Medical Technician Certificate C55460MT</a> <a href="#">13 SHC total</a>	»
<a href="#">Emergency Management Rescue Certificate C55460RS</a> <a href="#">13 SHC total</a>	»
<a href="#">Emergency Management for Policing Certificate C55460LE</a> <a href="#">12 SHC total</a>	»
<a href="#">Emergency Management Volunteer Services &amp; NGO Certificate C55460VS</a> <a href="#">12 SHC total</a>	»

### Additional Information:

**ACADEMIC PLANS:**



[A55460 AAS](#), [D55460 Diploma](#), [C55460MG Certificate](#), [C55460BC Business Continuity Certificate](#), [C55460FI Fire Investigations Certificate](#), [C55460RR Response and Recovery Certificate](#), [C55460MT Medical Technician Certificate](#), [C55460RS Rescue Certificate](#), [C55460VS Volunteer Services NGO Certificate](#), [C55460LE for Policing Certificate](#)




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## Notes:

For additional information regarding this program, contact the director, Alan Thompson, [alan.thompson@rccc.edu](mailto:alan.thompson@rccc.edu).

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## Faculty Mentors:

Alan Thompson	<i>Director</i>
<hr/>	
 <a href="mailto:alan.thompson@rccc.edu">alan.thompson@rccc.edu</a>	
 <a href="tel:704-216-7141">704-216-7141</a>	
 North	

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / A55460

## Emergency Management Associate in Applied Science Degree A55460

### Emergency Management (55460) CIP 43.0302

🕒 Last updated on Feb. 6, 2020, 8:18 a.m.

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">EPT-120 Sociology of Disaster</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">EPT-140 Emergency Management</a>	<u>3.00</u>
<a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">COM-140 Introduction to Intercultural Communication</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

**Credits: 15**

### First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">EPT-130 Mitigation &amp; Preparedness</a>	<u>3.00</u>
<a href="#">EMS-150 Emergency Vehicles and EMS Communication</a>	<u>2.00</u>

Take one of the following incident management courses.

<input checked="" type="checkbox"/> <a href="#">CJC-170 Critical Incident Mgmt for Public Safety</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">EPT-150 Incident Management</a>	<u>3.00</u>

Take one of the following communication courses. ENG 114 is recommended.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<u>3.00</u>

Take one of the following math courses. MAT 143 is recommended.

<a href="#">MAT-143 Quantitative Literacy</a>	<u>3.00</u>
<a href="#">MAT-152 Statistical Methods I</a>	<u>4.00</u>

**Credits: 14**

## First Year Summer:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">EPT-220 Terrorism and Emergency Management</a>	<a href="#">3.00</a>
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Take one of the following social/behavioral sciences courses.

<a href="#">POL-120 American Government</a>	<a href="#">3.00</a>
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<a href="#">PSY-150 General Psychology</a>	<a href="#">3.00</a>
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**Credits: 6**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">EPT-210 Response &amp; Recovery</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">EPT-275 Emergency Operations Center Management</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">FIP-228 Local Government Finance</a>	<a href="#">3.00</a>
--	----------------------

<a href="#">EMS-140 Rescue Scene Management</a>	<a href="#">2.00</a>
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Take one of the following law and ethics courses.

<input checked="" type="checkbox"/> <a href="#">EPT-124 EM Services Law &amp; Ethics</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">FIP-152 Fire Protection Law</a>	<a href="#">3.00</a>
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Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 17**

## Second Year Spring:

Take the following courses.

<a href="#">EPT-230 Emergency Planning</a>	<a href="#">3.00</a>
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<a href="#">GIS-252 Utilities in GIS</a>	<a href="#">3.00</a>
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Take 6 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 12**

## MAJOR ELECTIVES Course List:

Select nine semester hour credits (SHC) from the following courses. This may include up to 3 SHC from WBL. The courses not taken to satisfy the Incident Management and Law and Ethics requirements may be selected as Major Electives.

<u>CJC-121 Law Enforcement Operations</u>	<u>3.00</u>
<u>CJC-131 Criminal Law</u>	<u>3.00</u>
<u>CJC-132 Court Procedure &amp; Evidence</u>	<u>3.00</u>
<u>CJC-221 Investigative Principles</u>	<u>4.00</u>
<u>EMS-140A Rescue Scene Skills Lab</u>	<u>1.00</u>
<u>EMS-235 EMS Management</u>	<u>2.00</u>
<u>EPT-225 Hazard Analysis/Risk Assessment</u>	<u>3.00</u>
<u>EPT-260 Business Continuity</u>	<u>3.00</u>
<u>FIP-128 Detection and Investigation</u>	<u>3.00</u>
<u>FIP-132 Building Construction</u>	<u>3.00</u>
<u>FIP-152 Fire Protection Law</u>	<u>3.00</u>
<u>FIP-164 OSHA Standards</u>	<u>3.00</u>
<u>FIP-176 HazMat: Operations</u>	<u>4.00</u>
<u>FIP-180 Wildland Fire Behavior</u>	<u>3.00</u>
<u>FIP-256 Municipal Public Relations</u>	<u>3.00</u>
<u>GIS-212 GIS/GPS Applications</u>	<u>6.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>

Total Credits To Complete

64

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / D55460

## Emergency Management Diploma D55460

Emergency Management (55460) CIP 43.0302






🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:


Take the following courses.

 <a href="#">EPT-120 Sociology of Disaster</a>	<a href="#">3.00</a>
 <a href="#">EPT-140 Emergency Management</a>	<a href="#">3.00</a>
 <a href="#">EPT-210 Response &amp; Recovery</a>	<a href="#">3.00</a>
 <a href="#">EPT-275 Emergency Operations Center Management</a>	<a href="#">3.00</a>
 <a href="#">FIP-228 Local Government Finance</a>	<a href="#">3.00</a>
<a href="#">COM-140 Introduction to Intercultural Communication</a>	<a href="#">3.00</a>

**Credits: 18**

### First Year Spring:

Take the following courses.

 <a href="#">EPT-130 Mitigation &amp; Preparedness</a>	<a href="#">3.00</a>
<a href="#">EMS-150 Emergency Vehicles and EMS Communication</a>	<a href="#">2.00</a>
<a href="#">EPT-230 Emergency Planning</a>	<a href="#">3.00</a>
<a href="#">GIS-252 Utilities in GIS</a>	<a href="#">3.00</a>

Take one of the following math courses.

<a href="#">MAT-143 Quantitative Literacy</a>	<a href="#">3.00</a>
<a href="#">MAT-152 Statistical Methods I</a>	<a href="#">4.00</a>
<a href="#">MAT-171 Precalculus Algebra</a>	<a href="#">4.00</a>

**Credits: 14**

### First Year Summer:

Take the following courses.

 <a href="#">EPT-220 Terrorism and Emergency Management</a>	<a href="#">3.00</a>
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CIS-110 Introduction to Computers

3.00

ENG-111 Writing and Inquiry

3.00

**Credits: 9**

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# Total Credits To Complete

**41**

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# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / C55460MG

## Emergency Management Certificate C55460MG

Emergency Management (55460) CIP 43.0302

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">EPT-140 Emergency Management</a>	<u>3.00</u>
<a href="#">EPT-275 Emergency Operations Center Management</a>	<u>3.00</u>
<a href="#">EIP-256 Municipal Public Relations</a>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<a href="#">EPT-150 Incident Management</a>	<u>3.00</u>
<a href="#">EPT-230 Emergency Planning</a>	<u>3.00</u>

**Credits: 6**

### First Year Summer:

Take the following courses.

<a href="#">EPT-220 Terrorism and Emergency Management</a>	<u>3.00</u>
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**Credits: 3**

# Total Credits To Complete

18

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / C55460BC

## Emergency Management Business Continuity Certificate C55460BC

Emergency Management (55460) CIP 43.0302

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in one semester. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Spring:

Take the following courses.

<u>EPT-225 Hazard Analysis/Risk Assessment</u>	<u>3.00</u>
<u>EPT-230 Emergency Planning</u>	<u>3.00</u>
<u>EPT-260 Business Continuity</u>	<u>3.00</u>
<u>FIP-164 OSHA Standards</u>	<u>3.00</u>
<u>FIP-176 HazMat: Operations</u>	<u>4.00</u>

**Credits: 16**

# Total Credits To Complete

**16**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / C55460FI

## Emergency Management Fire Investigations Certificate C55460FI

Emergency Management (55460) CIP 43.0302

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">CJC-131 Criminal Law</a>	<u>3.00</u>
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<a href="#">FIP-128 Detection and Investigation</a>	<u>3.00</u>
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**Credits: 6**

### First Year Spring:

Take the following courses.

<a href="#">CJC-132 Court Procedure &amp; Evidence</a>	<u>3.00</u>
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<a href="#">CJC-221 Investigative Principles</a>	<u>4.00</u>
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<a href="#">FIP-132 Building Construction</a>	<u>3.00</u>
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**Credits: 10**

# Total Credits To Complete

16

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / C55460RR

## Emergency Management Response and Recovery Certificate C55460RR

### Emergency Management (55460) CIP 43.0302

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>EPT-120 Sociology of Disaster</u>	<u>3.00</u>
<u>EPT-140 Emergency Management</u>	<u>3.00</u>
<u>EPT-210 Response &amp; Recovery</u>	<u>3.00</u>
<u>EPT-275 Emergency Operations Center Management</u>	<u>3.00</u>

**Credits: 12**

### First Year Spring:

Take the following courses.

<u>EPT-150 Incident Management</u>	<u>3.00</u>
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**Credits: 3**

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / C55460MT

## Emergency Management Medical Technician Certificate C55460MT Emergency Management (55460) CIP 43.0302

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in one semester. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Spring:

Take the following courses.

<u>EMS-110 EMT</u>	<u>9.00</u>
<u>EPT-230 Emergency Planning</u>	<u>3.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>

**Credits: 13**

# Total Credits To Complete

**13**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / C55460RS

## Emergency Management Rescue Certificate C55460RS

Emergency Management (55460) CIP 43.0302

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">EMS-140 Rescue Scene Management</a>	<a href="#">2.00</a>
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<a href="#">EPT-120 Sociology of Disaster</a>	<a href="#">3.00</a>
---	----------------------

**Credits: 5**

### First Year Spring:

Take the following courses.

<a href="#">EMS-150 Emergency Vehicles and EMS Communication</a>	<a href="#">2.00</a>
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<a href="#">EPT-150 Incident Management</a>	<a href="#">3.00</a>
---	----------------------

<a href="#">EPT-225 Hazard Analysis/Risk Assessment</a>	<a href="#">3.00</a>
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**Credits: 8**

# Total Credits To Complete

13

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / C55460LE

## Emergency Management for Policing Certificate C55460LE

Emergency Management (55460) CIP 43.0302

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>EPT-120 Sociology of Disaster</u>	<u>3.00</u>
<u>EPT-210 Response &amp; Recovery</u>	<u>3.00</u>

**Credits: 6**

### First Year Spring:

Take the following courses.

<u>CJC-170 Critical Incident Mgmt for Public Safety</u>	<u>3.00</u>
<u>EPT-150 Incident Management</u>	<u>3.00</u>

**Credits: 6**

## Total Credits To Complete

**12**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Management](#) / C55460VS

## Emergency Management Volunteer Services & NGO Certificate C55460VS

Emergency Management (55460) CIP 43.0302

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in one semester. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>EMS-140 Rescue Scene Management</u>	<u>2.00</u>
<u>EPT-120 Sociology of Disaster</u>	<u>3.00</u>
<u>EPT-210 Response &amp; Recovery</u>	<u>3.00</u>
<u>FIP-256 Municipal Public Relations</u>	<u>3.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>

**Credits: 12**

## Total Credits To Complete

**12**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Emergency Medical Science

## Emergency Medical Science (45340) CIP 51.0904

🕒 Last updated on Dec. 17, 2019, 3:48 p.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Emergency Medical Science Associate in Applied Science Degree A45340](#) >>

[27 SHC total](#)

### Additional Information:

#### BRIDGE PROGRAM FOR NC PARAMEDICS:

This program is intended for currently certified North Carolina Paramedics. Students provide a copy of their current North Carolina Paramedic certification and must interview with the EMS Program Director prior to being accepted into the program. Upon successful completion students will graduate with an Associate in Applied Science degree in Emergency Medical Science.

### Notes:

For additional information regarding this program, contact the director, Alan Thompson, [alan.thompson@rccc.edu](mailto:alan.thompson@rccc.edu).

### Faculty Mentors:

Alan Thompson

*Director*

✉ [alan.thompson@rccc.edu](mailto:alan.thompson@rccc.edu)

📞 [704-216-7141](tel:704-216-7141)

📍 North

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Emergency Medical Science](#) / A45340

## Emergency Medical Science Associate in Applied Science Degree A45340

Emergency Medical Science (45340) CIP 51.0904

🕒 Last updated on June 17, 2020, 1:34 p.m.

*Bridge Program for NC Paramedics*

The following is a suggested degree map for completing this degree in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The 🗳 symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">BIO-168 Anatomy and Physiology I</a>	<u>4.00</u>
<a href="#">COM-140 Introduction to Intercultural Communication</a>	<u>3.00</u>
<a href="#">EMS-140 Rescue Scene Management</a>	<u>2.00</u>
<a href="#">EMS-280 EMS Bridging Course</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

**Credits: 15**

### First Year Spring:

Take the following courses.

🗳 <a href="#">BIO-169 Anatomy and Physiology II</a>	<u>4.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<u>3.00</u>

Take one of the following EMS courses.

<a href="#">EMS-125 EMS Instructor Methodology</a>	<u>3.00</u>
<a href="#">EMS-235 EMS Management</a>	<u>2.00</u>

**Credits: 12**

**Required Current North Carolina Paramedic Certification:**



Credit for the following courses will be awarded after students submit their required current North Carolina Paramedic Certification to the program chair prior to admission to the program.

<u>EMS-110 EMT</u>	<u>9.00</u>
<u>EMS-122 EMS Clinical Practicum I</u>	<u>1.00</u>
<u>EMS-130 Pharmacology</u>	<u>4.00</u>
<u>EMS-131 Advanced Airway Management</u>	<u>2.00</u>
<u>EMS-160 Cardiology I</u>	<u>3.00</u>
<u>EMS-220 Cardiology II</u>	<u>3.00</u>
<u>EMS-221 EMS Clinical Practicum II</u>	<u>2.00</u>
<u>EMS-231 EMS Clinical Practicum III</u>	<u>3.00</u>
<u>EMS-240 Patients with Special Challenges</u>	<u>2.00</u>
<u>EMS-241 EMS Clinical Practicum IV</u>	<u>4.00</u>
<u>EMS-250 Medical Emergencies</u>	<u>4.00</u>
<u>EMS-260 Trauma Emergencies</u>	<u>2.00</u>
<u>EMS-270 Life Span Emergencies</u>	<u>4.00</u>
<u>EMS-285 EMS Capstone</u>	<u>2.00</u>
<u>OST-141 Med Office Terms I</u>	<u>3.00</u>
<u>OST-142 Med Office Terms II</u>	<u>3.00</u>

**Credits: 51**

**Note:**

51 semester hour credits awarded by Chair for current North Carolina Paramedic Certification.

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# Total Credits To Complete

**27**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Esthetics Technology

## Esthetics Technology

(55230) CIP 12.0409

🕒 Last updated on April 2, 2020, 8:31 a.m.

The esthetics technology curriculum provides competency-based knowledge, scientific and 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 and 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 and skin care salons, as a platform artist, and in related businesses.

## Curriculum Offerings:

SHC - Semester Hour Credits

[CCPP Esthetics Technology Certificate C55230PB](#)

16 SHC total

»

[Esthetics Technology Certificate C55230](#)

16 SHC total

»

## Additional Information:

[Steps to Enroll for Cosmetology Programs](#)

## Notes:

For additional information regarding this program, contact the chair, Ronald Wolfe, [ronald.wolfe@rccc.edu](mailto:ronald.wolfe@rccc.edu).

## Faculty Mentors:

Ronald Wolfe

*Chair*

✉ [ronald.wolfe@rccc.edu](mailto:ronald.wolfe@rccc.edu)

📞 [704-216-3927](tel:704-216-3927)

📍 College Station

Amanda Harris

*Faculty*

✉ [amanda.harris@rccc.edu](mailto:amanda.harris@rccc.edu)

📞 [704-216-3930](tel:704-216-3930)

📍 College Station

Michelle Sofia

*Faculty*

✉ [michelle.sofia@rccc.edu](mailto:michelle.sofia@rccc.edu)

📞 [704-216-3928](tel:704-216-3928)

📍 College Station

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Esthetics Technology](#) / C55230

## Esthetics Technology Certificate C55230

Esthetics Technology (55230) CIP 12.0409

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">COS-119 Esthetics Concepts I</a>	<u>2.00</u>
<input checked="" type="checkbox"/> <a href="#">COS-120 Esthetics Salon I</a>	<u>6.00</u>

**Credits: 8**

### First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">COS-125 Esthetics Concepts II</a>	<u>2.00</u>
<input checked="" type="checkbox"/> <a href="#">COS-126 Esthetics Salon II</a>	<u>6.00</u>

**Credits: 8**

## Total Credits To Complete

**16**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Esthetics Technology](#) / C55230PB

## CCPP Esthetics Technology Certificate C55230PB

Esthetics Technology (55230) CIP 12.0409

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">COS-119 Esthetics Concepts I</a>	<u>2.00</u>
<a href="#">COS-120 Esthetics Salon I</a>	<u>6.00</u>
<a href="#">COS-125 Esthetics Concepts II</a>	<u>2.00</u>
<a href="#">COS-126 Esthetics Salon II</a>	<u>6.00</u>

**Credits: 16**

# Total Credits To Complete

**16**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Fire Protection Technology

## Fire Protection Technology

(55240) CIP 43.0201

🕒 Last updated on Sept. 24, 2019, 12:11 p.m.

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.

## Curriculum Offerings:

SHC - Semester Hour Credits

[Fire Protection Technology Associate in Applied Science Degree A55240](#) »

[66 SHC total](#)

[Fire Protection Technology Diploma D55240](#) »

[42 SHC total](#)

[Fire Protection Technology Fire Service Leadership & Management Certificate C55240LM](#) »

[15 SHC total](#)

[Fire Protection Technology Human Relations in Fire & Government Certificate C55240HR](#) »

[15 SHC total](#)

[Fire Protection Technology Supervision & HR Certificate C55240SH](#) »

[15 SHC total](#)

## Additional Information:

### ACADEMIC PLANS:

[A55240 AAS](#), [D55240 Diploma](#), [C55240LM Fire Service Leadership and Management Certificate](#), [C55240HR Human Relations in Fire and Government Certificate](#), [C55240SH Supervision and HR Certificate](#)

## Notes:

For additional information regarding this program, contact the director, Lee Ennis, [lee.ennis@rccc.edu](mailto:lee.ennis@rccc.edu).

## Faculty Mentors:

Lee Ennis

*Chair*

✉ [lee.ennis@rccc.edu](mailto:lee.ennis@rccc.edu)

📞 [704-216-3466](tel:704-216-3466)

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Fire Protection Technology](#) / A55240

## Fire Protection Technology Associate in Applied Science Degree A55240

### Fire Protection Technology (55240) CIP 43.0201



🕒 Last updated on Jan. 28, 2020, 4:03 p.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">FIP-120 Introduction to Fire Protection</a>	<a href="#">3.00</a>
 <a href="#">FIP-152 Fire Protection Law</a>	<a href="#">3.00</a>
<a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">HSE-245 Stress Management</a>	<a href="#">3.00</a>



Take one of the following humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">HUM-110 Technology and Society</a>	<a href="#">3.00</a>
<a href="#">REL-110 World Religions</a>	<a href="#">3.00</a>

**Credits: 18**

### First Year Spring:

Take the following courses.

 <a href="#">FIP-124 Fire Prevention &amp; Public Education</a>	<a href="#">3.00</a>
 <a href="#">FIP-132 Building Construction</a>	<a href="#">3.00</a>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<a href="#">3.00</a>

Take one of the following math courses.

<a href="#">MAT-143 Quantitative Literacy</a>	<a href="#">3.00</a>
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MAT-169 Statistical Methods I	4.00
MAT-171 Precalculus Algebra	4.00

**Credits: 12**

## First Year Summer:

Take one of the following social/behavioral sciences courses.

PSY-150 General Psychology	3.00
SOC-210 Introduction to Sociology	3.00

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 6**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> FIP-220 Fire Fighting Strategies	3.00
<input checked="" type="checkbox"/> FIP-228 Local Government Finance	3.00
FIP-277 Fire and Social Behavior	3.00

Take 6 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

## Second Year Spring:

Take the following courses.

FIP-232 Hydraulics and Water Distribution	3.00
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Take 12 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

## MAJOR ELECTIVES Course List:

Select a minimum of 21 semester hour credits from the following courses. EPT Courses are limited to no more than 9 SHC.

EMS-110 EMT	9.00
EPT-120 Sociology of Disaster	3.00
EPT-140 Emergency Management	3.00
EPT-150 Incident Management	3.00
EPT-230 Emergency Planning	3.00
EPT-275 Emergency Operations Center Management	3.00
FIP-128 Detection and Investigation	3.00

<u>FIP-136 Inspections and Codes</u>	<u>3.00</u>
<u>FIP-140 Industrial Fire Protection</u>	<u>3.00</u>
<u>FIP-146 Fire Protection Systems</u>	<u>4.00</u>
<u>FIP-162 Firefighter Safety &amp; Wellness</u>	<u>3.00</u>
<u>FIP-164 OSHA Standards</u>	<u>3.00</u>
<u>FIP-176 HazMat: Operations</u>	<u>4.00</u>
<u>FIP-180 Wildland Fire Behavior</u>	<u>3.00</u>
<u>FIP-184 Wildland Fire Safety</u>	<u>3.00</u>
<u>FIP-221 Advanced Fire Fighting Strategies</u>	<u>3.00</u>
<u>FIP-224 Fire Instructor I &amp; II</u>	<u>4.00</u>
<u>FIP-226 Fire Officer I &amp; II</u>	<u>4.00</u>
<u>FIP-229 Fire Dynamics and Combustion</u>	<u>3.00</u>
<u>FIP-230 Chemistry of Hazardous Materials I</u>	<u>5.00</u>
<u>FIP-240 Fire Service Supervision</u>	<u>3.00</u>
<u>FIP-248 Fire Service Personnel Administration</u>	<u>3.00</u>
<u>FIP-256 Municipal Public Relations</u>	<u>3.00</u>
<u>FIP-276 Managing Fire Services</u>	<u>3.00</u>
<u>PED-110 Fit and Well for Life</u>	<u>2.00</u>
<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>PHY-152 College Physics II</u>	<u>4.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>WBL-114 Work-Based Learning I</u>	<u>4.00</u>
<u>WBL-123 Work-Based Learning II</u>	<u>3.00</u>

Total Credits To Complete

66



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Fire Protection Technology](#) / D55240

## Fire Protection Technology Diploma D55240

Fire Protection Technology (55240) CIP 43.0201


 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this diploma in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">FIP-120 Introduction to Fire Protection</a>	<a href="#">3.00</a>
 <a href="#">FIP-152 Fire Protection Law</a>	<a href="#">3.00</a>
<a href="#">FIP-240 Fire Service Supervision</a>	<a href="#">3.00</a>
<a href="#">HSE-245 Stress Management</a>	<a href="#">3.00</a>

**Credits: 12**

### First Year Spring:

Take the following courses.

 <a href="#">FIP-124 Fire Prevention &amp; Public Education</a>	<a href="#">3.00</a>
 <a href="#">FIP-132 Building Construction</a>	<a href="#">3.00</a>
<a href="#">FIP-248 Fire Service Personnel Administration</a>	<a href="#">3.00</a>
<a href="#">FIP-276 Managing Fire Services</a>	<a href="#">3.00</a>

**Credits: 12**

### First Year Summer:

Take the following courses.

<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
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Take one of the following social/behavioral sciences courses.

<a href="#">PSY-150 General Psychology</a>	<a href="#">3.00</a>
<a href="#">SOC-210 Introduction to Sociology</a>	<a href="#">3.00</a>

**Credits: 6**

### Second Year Fall:

Take the following courses.

✓ <a href="#">FIP-220 Fire Fighting Strategies</a>	<a href="#">3.00</a>
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✓ <a href="#">FIP-228 Local Government Finance</a>	<a href="#">3.00</a>
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<a href="#">FIP-256 Municipal Public Relations</a>	<a href="#">3.00</a>
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<a href="#">FIP-277 Fire and Social Behavior</a>	<a href="#">3.00</a>
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**Credits: 12**

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# Total Credits To Complete

**42**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Fire Protection Technology](#) / C55240LM

## Fire Protection Technology Fire Service Leadership & Management Certificate C55240LM

Fire Protection Technology (55240) CIP 43.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">FIP-220 Fire Fighting Strategies</a>	<u>3.00</u>
<a href="#">FIP-228 Local Government Finance</a>	<u>3.00</u>

**Credits: 6**

### First Year Spring:

Take the following courses.

<a href="#">FIP-132 Building Construction</a>	<u>3.00</u>
<a href="#">FIP-248 Fire Service Personnel Administration</a>	<u>3.00</u>
<a href="#">FIP-276 Managing Fire Services</a>	<u>3.00</u>

**Credits: 9**

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Fire Protection Technology](#) / C55240HR

## Fire Protection Technology Human Relations in Fire & Government Certificate C55240HR

Fire Protection Technology (55240) CIP 43.0201

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>FIP-220 Fire Fighting Strategies</u>	<u>3.00</u>
<u>FIP-228 Local Government Finance</u>	<u>3.00</u>
<u>FIP-256 Municipal Public Relations</u>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<u>FIP-132 Building Construction</u>	<u>3.00</u>
<u>FIP-277 Fire and Social Behavior</u>	<u>3.00</u>

**Credits: 6**

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Fire Protection Technology](#) / C55240SH

## Fire Protection Technology Supervision & HR Certificate C55240SH

Fire Protection Technology (55240) CIP 43.0201

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">FIP-152 Fire Protection Law</a>	<u>3.00</u>
<a href="#">FIP-220 Fire Fighting Strategies</a>	<u>3.00</u>
<a href="#">FIP-228 Local Government Finance</a>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<a href="#">FIP-132 Building Construction</a>	<u>3.00</u>
<a href="#">FIP-240 Fire Service Supervision</a>	<u>3.00</u>

**Credits: 6**

# Total Credits To Complete

15

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Healthcare Management Technology

## Healthcare Management Technology (25200) CIP 51.0705

🕒 Last updated on Oct. 1, 2019, 3:53 p.m.

The Healthcare Management Technology curriculum prepares individuals for employment in healthcare business and financial operations in areas such as general healthcare management, entrepreneurship, and long-term care.

Course work includes medical office management, financial management, legal aspects of healthcare, medical insurance and billing analysis, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of healthcare settings including hospitals, medical offices, outpatient clinics, long-term care facilities, and insurance companies. Industry recognized certifications may be available for graduates with work experience.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Healthcare Management Technology Associate in Applied Science Degree A25200](#) »

[72-73 SHC total](#)

[Healthcare Management Technology Diploma D25200](#) »

[39 SHC total](#)

[Healthcare Management Technology Billing and Coding Essentials Certificate C25200BE](#) »

[12 SHC total](#)

### Additional Information:

**ACADEMIC PLANS:** [A25200 AAS](#), [D25200 Diploma](#), [C25200BE Billing and Coding Essentials Certificate](#)

### Faculty Mentors:

Zackary Hubbard

*Chair*

✉ [zackary.hubbard@rccc.edu](mailto:zackary.hubbard@rccc.edu)

📞 [704-216-3555](tel:704-216-3555)

📍 CBTC

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Healthcare Management Technology](#) / A25200

## Healthcare Management Technology Associate in Applied Science Degree A25200

Healthcare Management Technology (25200) CIP 51.0705

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:




Take the following courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
 <a href="#">HMT-110 Intro to Healthcare Mgt</a>	<a href="#">3.00</a>
 <a href="#">OST-141 Med Office Terms I</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">OST-181 Office Procedures</a>	<a href="#">3.00</a>

**Credits: 15**

### First Year Spring:

Take the following courses.

 <a href="#">OST-142 Med Office Terms II</a>	<a href="#">3.00</a>
 <a href="#">OST-148 Medical Insurance &amp; Billing</a>	<a href="#">3.00</a>
 <a href="#">OST-149 Medical Legal Issues</a>	<a href="#">3.00</a>
<a href="#">OST-136 Word Processing</a>	<a href="#">3.00</a>

Take one of the following humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">HUM-110 Technology and Society</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>

**Credits: 15**

### First Year Summer:

Take the following courses.

<a href="#">CTS-115 Information Systems Business Concepts</a>	<a href="#">3.00</a>
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DBA-110 Database Concepts 3.00

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Take one of the following math courses.

MAT-110 Mathematical Measurement and Literacy 3.00

MAT-143 Quantitative Literacy 3.00

MAT-171 Precalculus Algebra 4.00

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Take one of the following social/behavioral sciences courses.

ECO-151 Survey of Economics 3.00

PSY-150 General Psychology 3.00

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**Credits: 12-13**

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## Second Year Fall:

Take the following courses.

ACC-120 Principles of Financial Accounting 4.00

BUS-137 Principles of Management 3.00

CTS-130 Spreadsheet 3.00

OST-247 Procedure Coding 3.00

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Take one of the following communication courses.

ENG-112 Writing and Research in the Disciplines 3.00

ENG-114 Professional Research & Reporting 3.00

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**Credits: 16**

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## Second Year Spring:

Take the following courses.

ACC-121 Principles of Managerial Accounting 4.00

CTS-230 Advanced Spreadsheet 3.00

OST-243 Med Office Simulation 3.00

OST-248 Diagnostic Coding 3.00

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Take one of the following WBL courses.

WBL-110 World of Work 1.00

WBL-111 Work-Based Learning I 1.00

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**Credits: 14**

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# Total Credits To Complete

**72-73**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Healthcare Management Technology](#) / D25200

## Healthcare Management Technology Diploma D25200

Healthcare Management Technology (25200) CIP 51.0705





🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this diploma in three semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
 <a href="#">HMT-110 Intro to Healthcare Mgt</a>	<a href="#">3.00</a>
 <a href="#">OST-141 Med Office Terms I</a>	<a href="#">3.00</a>
 <a href="#">OST-148 Medical Insurance &amp; Billing</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 15**

### First Year Spring:

Take the following courses.

<a href="#">CTS-115 Information Systems Business Concepts</a>	<a href="#">3.00</a>
<a href="#">OST-142 Med Office Terms II</a>	<a href="#">3.00</a>
<a href="#">OST-149 Medical Legal Issues</a>	<a href="#">3.00</a>
<a href="#">OST-181 Office Procedures</a>	<a href="#">3.00</a>
<a href="#">OST-247 Procedure Coding</a>	<a href="#">3.00</a>

**Credits: 15**

### Second Year Fall:

Take the following courses.

<a href="#">OST-243 Med Office Simulation</a>	<a href="#">3.00</a>
<a href="#">OST-248 Diagnostic Coding</a>	<a href="#">3.00</a>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<a href="#">3.00</a>

Credits: 9

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# Total Credits To Complete

39

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Healthcare Management Technology](#) / C25200BE

## Healthcare Management Technology Billing and Coding Essentials Certificate C25200BE

Healthcare Management Technology (25200) CIP 51.0705

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this certificate in two semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">OST-141 Med Office Terms I</a>	<a href="#">3.00</a>
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<a href="#">OST-148 Medical Insurance &amp; Billing</a>	<a href="#">3.00</a>
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**Credits: 6**

### First Year Spring:

Take the following courses.

<a href="#">OST-142 Med Office Terms II</a>	<a href="#">3.00</a>
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<a href="#">OST-149 Medical Legal Issues</a>	<a href="#">3.00</a>
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**Credits: 6**

## Total Credits To Complete

12

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Industrial Engineering Technology

## Industrial Engineering Technology

(40240) CIP 15.0612

 Last updated on Sept. 24, 2019, 12:12 p.m.

The industrial engineering technology curriculum prepares students through the study and application of the principles for developing, implementing and improving integrated systems involving people, materials, equipment and information as leaders in an industrial or manufacturing setting. Students are prepared to use basic engineering principles and technical skills to develop, implement, and improve industrial and service systems.

Course work includes mathematics, leadership and management skills, manufacturing materials and processes, and computerized production methods and instruction in systems analysis, quality and productivity improvement techniques for process development, cost analysis, facilities planning, organizational behavior, industrial processes, industrial planning procedures, computer applications, and report and presentation preparation.

Graduates should qualify as quality improvement technicians, front-line supervisors, production planners, inventory supervisors, and manufacturing technicians. Graduates should qualify for employment as industrial process technicians, quality assurance and control technicians, and facilities managers. Certification is available through organizations such as ASQC, SME and APICS.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Industrial Engineering Technology Associate in Applied Science Degree A40240](#)

64 SHC total

»

[Industrial Engineering Technology Diploma D40240](#)

36 SHC total

»

[Industrial Engineering Technology Management Certificate C40240MC](#)

17-18 SHC total

»

[Industrial Engineering Technology Certificate C40240IE](#)

17 SHC total

»

### Additional Information:

[ASO Certification Information](#)
[SME Certification Information](#)
[APICS Certificate Information](#)
**ACADEMIC PLANS:** [A40240 AAS](#), [D40240 Diploma](#), [C40240 Certificate](#), [C40240MC Management Certificate](#)

### Notes:

For additional information regarding this program, contact the chair, Tony Bean, [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu).

### Faculty Mentors:

Tony Bean


Chair

 [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu)


Adrian McManus


Faculty

 [adrian.mcmanus@rccc.edu](mailto:adrian.mcmanus@rccc.edu)

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 Advanced Technology Center at NCRC

 [704-216-3772](tel:704-216-3772)

 Advanced Technology Center at NCRC

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Industrial Engineering Technology](#) / A40240

## Industrial Engineering Technology Associate in Applied Science Degree A40240

Industrial Engineering Technology (40240) CIP 15.0612



🕒 Last updated on Feb. 21, 2020, 4:23 p.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">DFT-151 CAD I</a>	<a href="#">3.00</a>
 <a href="#">ISC-112 Industrial Safety</a>	<a href="#">2.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

Take one of the following math courses.



<a href="#">MAT-121 Algebra/Trigonometry I</a>	<a href="#">3.00</a>
<a href="#">MAT-171 Precalculus Algebra</a>	<a href="#">4.00</a>

Take 4 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15-16**

### First Year Spring:

Take the following courses.

 <a href="#">ISC-135 Principles of Industrial Management</a>	<a href="#">4.00</a>
 <a href="#">ISC-136 Productivity Analysis I</a>	<a href="#">3.00</a>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<a href="#">3.00</a>

Take one of the following courses from this standardized humanities/fine arts course list.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
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<u>ART-114 Art History Survey I</u>	<u>3.00</u>
<u>ART-115 Art History Survey II</u>	<u>3.00</u>
<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>



PHI-240 Introduction to Ethics	3.00
<u>REL-110 World Religions</u>	<u>3.00</u>
REL-211 Introduction to Old Testament	3.00
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

Take 4 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 17**

## First Year Summer:

Take one of the following economics courses.

<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 6**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <u>ISC-132 Manufacturing Quality Control</u>	<u>3.00</u>
<input checked="" type="checkbox"/> <u>ISC-243 Production and Operations Management I</u>	<u>3.00</u>

Take 9 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

## Second Year Spring:

Take the following courses.

<u>MEC-145 Manufacturing Materials I</u>	<u>3.00</u>
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Take 8 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 11**

## MAJOR ELECTIVES Course List:

Select 28 semester hour credits (SHC) from the following courses. ACC, BIO, BTC, BUS, CHM, CMT, CSC, CTI, CTS, ELC, ELN, MAC, MAT, PHY, and WLD courses are limited to a total of 9 SHC each. WBL courses are limited to 4 SHC. Transfer Students: Students planning to transfer to a four-year school should select MAT 171 for the math requirement, and PHY 151 as a Major Elective.

<u>ACC-115 College Accounting</u>	<u>4.00</u>
<u>ACC-120 Principles of Financial Accounting</u>	<u>4.00</u>

<u>ACC-121 Principles of Managerial Accounting</u>	4.00
<u>ACC-129 Individual Income Taxes</u>	3.00
<u>ACC-132 NC Business Taxes</u>	2.00
<u>ACC-140 Payroll Accounting</u>	2.00
<u>ACC-149 Intro to ACC Spreadsheets</u>	2.00
<u>ACC-150 Accounting Software Applications</u>	2.00
<u>ACC-175 Hotel and Restaurant Accounting</u>	4.00
<u>ACC-215 Ethics in Accounting</u>	3.00
<u>ACC-220 Intermediate Accounting I</u>	4.00
<u>ACC-221 Intermediate Accounting II</u>	4.00
<u>ACC-225 Cost Accounting</u>	3.00
<u>ACC-240 Gov &amp; Not-For-Profit Acct</u>	3.00
<u>ACC-250 Advanced Accounting</u>	3.00
<u>ACC-268 Information Systems &amp; Internal Controls</u>	3.00
<u>ACC-269 Auditing &amp; Assurance Services</u>	3.00
<u>ACC-270 International Accounting</u>	3.00
<u>ATR-112 Intro to Automation</u>	3.00
<u>ATR-281 Automated Manufacturing</u>	4.00
<u>BIO-110 Principles of Biology</u>	4.00
<u>BIO-111 General Biology I</u>	4.00
<u>BIO-112 General Biology II</u>	4.00
<u>BIO-140 Environmental Biology</u>	3.00
<u>BIO-163 Basic Anatomy &amp; Physiology</u>	5.00
<u>BIO-168 Anatomy and Physiology I</u>	4.00
<u>BIO-169 Anatomy and Physiology II</u>	4.00
<u>BIO-175 General Microbiology</u>	3.00
<u>BIO-250 Genetics</u>	4.00
<u>BIO-275 Microbiology</u>	4.00
<u>BPR-111 Print Reading</u>	2.00
<u>BPR-121 Blueprint Reading-Mechanical</u>	2.00
<u>BPR-130 Print Reading-Construction</u>	3.00
<u>BUS-110 Introduction to Business</u>	3.00
<u>BUS-115 Business Law I</u>	3.00
<u>BUS-121 Business Math</u>	3.00
<u>BUS-125 Personal Finance</u>	3.00
<u>BUS-137 Principles of Management</u>	3.00
<u>BUS-153 Human Resource Management</u>	3.00

<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-225 Business Finance</u>	<u>3.00</u>
<u>BUS-230 Small Business Management</u>	<u>3.00</u>
<u>BUS-234 Training and Development</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>
<u>BUS-253 Leadership and Management Skills</u>	<u>3.00</u>
<u>BUS-256 Recruiting, Selection, &amp; Personnel Planning</u>	<u>3.00</u>
<u>BUS-258 Compensation and Benefits</u>	<u>3.00</u>
<u>BUS-259 HRM Applications</u>	<u>3.00</u>
<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>CHM-131 Introduction to Chemistry.</u>	<u>3.00</u>
<u>CHM-131A Introduction to Chemistry Lab</u>	<u>1.00</u>
<u>CHM-132 Organic and Biochemistry.</u>	<u>4.00</u>
<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>CHM-152 General Chemistry II</u>	<u>4.00</u>
<u>CHM-251 Organic Chemistry I</u>	<u>4.00</u>
<u>CHM-252 Organic Chemistry II</u>	<u>4.00</u>
<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>CIS-115 Intro to Programming &amp; Logic</u>	<u>3.00</u>
<u>CIV-240 Project Management</u>	<u>3.00</u>
<u>CMT-120 Codes and Inspections</u>	<u>3.00</u>
<u>CMT-210 Construction Management Fundamentals</u>	<u>3.00</u>
<u>CMT-212 Total Safety Performance</u>	<u>3.00</u>
<u>CMT-214 Planning and Scheduling</u>	<u>3.00</u>
<u>CMT-216 Costs and Productivity</u>	<u>3.00</u>
<u>CMT-218 Human Relations Issues</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>
<u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>CSC-153 C# Programming</u>	<u>3.00</u>
<u>CSC-251 Advanced JAVA Programming</u>	<u>3.00</u>
<u>CSC-253 Advanced C# Programming</u>	<u>3.00</u>
<u>CST-131 OSHA/Safety/Certification</u>	<u>3.00</u>
<u>CST-241 Planning/Estimating I</u>	<u>3.00</u>
<u>CTI-110 Web, Programming, and Database Foundation</u>	<u>3.00</u>
<u>CTI-120 Network and Security Foundation</u>	<u>3.00</u>
<u>CTI-130 Os and Device Foundation</u>	<u>6.00</u>

<u>CTI-140 Virtualization Concepts</u>	<u>3.00</u>
<u>CTS-115 Information Systems Business Concepts</u>	<u>3.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>CTS-155 Tech Support Functions</u>	<u>3.00</u>
<u>CTS-230 Advanced Spreadsheet</u>	<u>3.00</u>
<u>CTS-240 Project Management</u>	<u>3.00</u>
<u>DBA-110 Database Concepts</u>	<u>3.00</u>
<u>DBA-120 Database Programming I</u>	<u>3.00</u>
<u>DFT-111 Technical Drafting I</u>	<u>2.00</u>
<u>DFT-112 Technical Drafting II</u>	<u>2.00</u>
<u>DFT-121 Introduction to GD&amp;T</u>	<u>2.00</u>
<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>EGR-110 Intro to Engineering Tech</u>	<u>2.00</u>
<u>EGR-125 Appl Software for Tech</u>	<u>2.00</u>
<u>EGR-251 Statics</u>	<u>3.00</u>
<u>EGR-252 Strength of Materials</u>	<u>3.00</u>
<u>ELC-112 DC/AC Electricity</u>	<u>5.00</u>
<u>ELC-113 Residential Wiring</u>	<u>4.00</u>
<u>ELC-115 Industrial Wiring</u>	<u>4.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-118 National Electrical Code</u>	<u>2.00</u>
<u>ELC-119 NEC Calculations</u>	<u>2.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>
<u>ELC-126 Electrical Computations</u>	<u>3.00</u>
<u>ELC-128 Introduction to Programmable Logic Controller</u>	<u>3.00</u>
<u>ELC-130 Advanced Motors/Controls</u>	<u>3.00</u>
<u>ELC-138 DC Circuit Analysis</u>	<u>4.00</u>
<u>ELC-139 AC Circuit Analysis</u>	<u>4.00</u>
<u>ELC-213 Instrumentation</u>	<u>4.00</u>
<u>ELC-215 Electrical Maintenance</u>	<u>3.00</u>
<u>ELN-131 Analog Electronics I</u>	<u>4.00</u>
<u>ELN-132 Analog Electronics II</u>	<u>4.00</u>
<u>ELN-133 Digital Electronics</u>	<u>4.00</u>
<u>ELN-150 Computer-Aided Drafting for Electronics</u>	<u>2.00</u>
<u>ELN-232 Introduction to Microprocessors</u>	<u>4.00</u>

<u>ELN-234 Communication Systems</u>	<u>4.00</u>
<u>ELN-260 Prog Logic Controllers</u>	<u>4.00</u>
<u>HYD-110 Hydraulics/Pneumatics I</u>	<u>3.00</u>
<u>ISC-113 Industrial Specifications</u>	<u>1.00</u>
<u>ISC-214 Job Analysis/Wages &amp; Salary</u>	<u>3.00</u>
<u>ISC-220 Lean Manufacturing</u>	<u>3.00</u>
<u>ISC-225 Facility Layout</u>	<u>4.00</u>
<u>ISC-255 Engineering Economy</u>	<u>3.00</u>
<u>MAC-111 Machining Technology I</u>	<u>6.00</u>
<u>MAC-112 Machining Technology II</u>	<u>6.00</u>
<u>MAC-114 Introduction to Metrology</u>	<u>2.00</u>
<u>MAC-122 CNC Turning</u>	<u>2.00</u>
<u>MAC-124 CNC Milling</u>	<u>2.00</u>
<u>MAC-143 Machining Applications III</u>	<u>4.00</u>
<u>MAC-151 Machining Calculations</u>	<u>2.00</u>
<u>MAC-152 Advanced Machining Calculations</u>	<u>2.00</u>
<u>MAC-222 Advanced CNC Turning</u>	<u>2.00</u>
<u>MAC-224 Advanced CNC Milling</u>	<u>2.00</u>
<u>MAC-229 CNC Programming</u>	<u>2.00</u>
<u>MAC-233 Appl in CNC Machining</u>	<u>6.00</u>
<u>MAC-234 Advanced Multi-Axis Machining</u>	<u>3.00</u>
<u>MAC-248 Production Procedures</u>	<u>2.00</u>
<u>MAT-143 Quantitative Literacy</u>	<u>3.00</u>
<u>MAT-152 Statistical Methods I</u>	<u>4.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-263 Brief Calculus</u>	<u>4.00</u>
<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MAT-272 Calculus II</u>	<u>4.00</u>
<u>MAT-273 Calculus III</u>	<u>4.00</u>
<u>MEC-110 Introduction to CAD/CAM</u>	<u>2.00</u>
<u>MEC-111 Machine Processes I</u>	<u>3.00</u>
<u>MEC-142 Physical Metallurgy</u>	<u>2.00</u>
<u>MEC-231 Computer-Aided Manufacturing I</u>	<u>3.00</u>
<u>MEC-232 Computer-Aided Manufacturing II</u>	<u>3.00</u>
<u>MEC-265 Fluid Mechanics</u>	<u>3.00</u>
<u>MEC-275 Engineering Mechanisms</u>	<u>3.00</u>

<u>NOS-120 Linux/UNIX Single User</u>	<u>3.00</u>
<u>NOS-130 Windows Single User</u>	<u>3.00</u>
<u>NOS-230 Windows Administration I</u>	<u>3.00</u>
<u>OMT-241 Logistics</u>	<u>3.00</u>
<u>PHY-131 Physics-Mechanics</u>	<u>4.00</u>
<u>PHY-132 Physics-Electricity &amp; Magnetism</u>	<u>4.00</u>
<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>PHY-152 College Physics II</u>	<u>4.00</u>
<u>PHY-251 General Physics I</u>	<u>4.00</u>
<u>PHY-252 General Physics II</u>	<u>4.00</u>
<u>SST-140 Green Building and Design Concepts</u>	<u>3.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
<u>WBL-114 Work-Based Learning I</u>	<u>4.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WBL-122 Work-Based Learning II</u>	<u>2.00</u>
<u>WBL-123 Work-Based Learning II</u>	<u>3.00</u>
<u>WBL-131 Work-Based Learning III</u>	<u>1.00</u>
<u>WBL-132 Work-Based Learning III</u>	<u>2.00</u>
<u>WBL-211 Work-Based Learning IV</u>	<u>1.00</u>
<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
<u>WLD-112 Basic Welding Processes</u>	<u>2.00</u>
<u>WLD-115 SMAW (Stick) Plate</u>	<u>5.00</u>
<u>WLD-116 SMAW (stick) Plate/Pipe</u>	<u>4.00</u>
<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	<u>4.00</u>
<u>WLD-122 GMAW (MIG) Plate/Pipe</u>	<u>3.00</u>
<u>WLD-131 GTAW (TIG) Plate</u>	<u>4.00</u>
<u>WLD-132 GTAW (TIG) Plate/Pipe</u>	<u>3.00</u>
<u>WLD-141 Symbols and Specifications</u>	<u>3.00</u>
<u>WLD-143 Welding Metallurgy</u>	<u>2.00</u>
<u>WLD-151 Fabrication I</u>	<u>4.00</u>
<u>WLD-215 SMAW (stick) Pipe</u>	<u>4.00</u>
<u>WLD-231 GTAW (TIG) Pipe</u>	<u>3.00</u>
<u>WLD-261 Certification Practices</u>	<u>2.00</u>
<u>WLD-265 Automated Welding/Cutting</u>	<u>4.00</u>

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**Additional Information:**

## **Transfer Students**

Students planning to transfer to a four-year school should select MAT 171 for the math requirement, and PHY 151 as a Major Elective.

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Total Credits To Complete

**64**

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# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Industrial Engineering Technology](#) / D40240

## Industrial Engineering Technology Diploma D40240

Industrial Engineering Technology (40240) CIP 15.0612



 Last updated on Feb. 21, 2020, 4:21 p.m.

The following is a suggested program of study for completing this diploma in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">DFT-151 CAD I</a>	<a href="#">3.00</a>
 <a href="#">ISC-112 Industrial Safety</a>	<a href="#">2.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

Take one of the following math courses.



<a href="#">MAT-121 Algebra/Trigonometry I</a>	<a href="#">3.00</a>
<a href="#">MAT-171 Precalculus Algebra</a>	<a href="#">4.00</a>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 14**

### First Year Spring:

Take the following courses.

 <a href="#">ISC-135 Principles of Industrial Management</a>	<a href="#">4.00</a>
 <a href="#">ISC-136 Productivity Analysis I</a>	<a href="#">3.00</a>

Take 9 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 16**

### First Year Summer:

Take the following courses.

 <a href="#">ISC-132 Manufacturing Quality Control</a>	<a href="#">3.00</a>
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Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 6**

## MAJOR ELECTIVES Course List:

Take 15 semester hour credits (SHC) from the following courses. ACC, BIO, BTC, BUS, CHM, CMT, CSC, CTI, CTS, ELC, ELN, MAC, MAT, PHY, and WLD are limited to a total of 9 SHC each. WBL is limited to a total of 4 SHC.

<a href="#"><u>ACC-115 College Accounting</u></a>	<u>4.00</u>
<a href="#"><u>ACC-120 Principles of Financial Accounting</u></a>	<u>4.00</u>
<a href="#"><u>ACC-121 Principles of Managerial Accounting</u></a>	<u>4.00</u>
<a href="#"><u>ACC-129 Individual Income Taxes</u></a>	<u>3.00</u>
<a href="#"><u>ACC-132 NC Business Taxes</u></a>	<u>2.00</u>
<a href="#"><u>ACC-140 Payroll Accounting</u></a>	<u>2.00</u>
<a href="#"><u>ACC-149 Intro to ACC Spreadsheets</u></a>	<u>2.00</u>
<a href="#"><u>ACC-150 Accounting Software Applications</u></a>	<u>2.00</u>
<a href="#"><u>ACC-175 Hotel and Restaurant Accounting</u></a>	<u>4.00</u>
<a href="#"><u>ACC-215 Ethics in Accounting</u></a>	<u>3.00</u>
<a href="#"><u>ACC-220 Intermediate Accounting I</u></a>	<u>4.00</u>
<a href="#"><u>ACC-221 Intermediate Accounting II</u></a>	<u>4.00</u>
<a href="#"><u>ACC-225 Cost Accounting</u></a>	<u>3.00</u>
<a href="#"><u>ACC-240 Gov &amp; Not-For-Profit Acct</u></a>	<u>3.00</u>
<a href="#"><u>ACC-250 Advanced Accounting</u></a>	<u>3.00</u>
<a href="#"><u>ACC-268 Information Systems &amp; Internal Controls</u></a>	<u>3.00</u>
<a href="#"><u>ACC-269 Auditing &amp; Assurance Services</u></a>	<u>3.00</u>
<a href="#"><u>ACC-270 International Accounting</u></a>	<u>3.00</u>
<a href="#"><u>ATR-112 Intro to Automation</u></a>	<u>3.00</u>
<a href="#"><u>ATR-281 Automated Manufacturing</u></a>	<u>4.00</u>
<a href="#"><u>BIO-110 Principles of Biology</u></a>	<u>4.00</u>
<a href="#"><u>BIO-111 General Biology I</u></a>	<u>4.00</u>
<a href="#"><u>BIO-112 General Biology II</u></a>	<u>4.00</u>
<a href="#"><u>BIO-140 Environmental Biology</u></a>	<u>3.00</u>
<a href="#"><u>BIO-163 Basic Anatomy &amp; Physiology</u></a>	<u>5.00</u>
<a href="#"><u>BIO-168 Anatomy and Physiology I</u></a>	<u>4.00</u>
<a href="#"><u>BIO-169 Anatomy and Physiology II</u></a>	<u>4.00</u>
<a href="#"><u>BIO-175 General Microbiology</u></a>	<u>3.00</u>
<a href="#"><u>BIO-250 Genetics</u></a>	<u>4.00</u>
<a href="#"><u>BIO-275 Microbiology</u></a>	<u>4.00</u>

BPR-111 Print Reading	2.00
<u>BPR-121 Blueprint Reading-Mechanical</u>	<u>2.00</u>
<u>BPR-130 Print Reading-Construction</u>	<u>3.00</u>
<u>BUS-110 Introduction to Business</u>	<u>3.00</u>
<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-121 Business Math</u>	<u>3.00</u>
<u>BUS-125 Personal Finance</u>	<u>3.00</u>
<u>BUS-137 Principles of Management</u>	<u>3.00</u>
<u>BUS-153 Human Resource Management</u>	<u>3.00</u>
<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-225 Business Finance</u>	<u>3.00</u>
<u>BUS-230 Small Business Management</u>	<u>3.00</u>
<u>BUS-234 Training and Development</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>
<u>BUS-253 Leadership and Management Skills</u>	<u>3.00</u>
<u>BUS-256 Recruiting, Selection, &amp; Personnel Planning</u>	<u>3.00</u>
<u>BUS-258 Compensation and Benefits</u>	<u>3.00</u>
<u>BUS-259 HRM Applications</u>	<u>3.00</u>
<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>CHM-131 Introduction to Chemistry.</u>	<u>3.00</u>
<u>CHM-131A Introduction to Chemistry Lab</u>	<u>1.00</u>
<u>CHM-132 Organic and Biochemistry.</u>	<u>4.00</u>
<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>CHM-152 General Chemistry II</u>	<u>4.00</u>
<u>CHM-251 Organic Chemistry I</u>	<u>4.00</u>
<u>CHM-252 Organic Chemistry II</u>	<u>4.00</u>
<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>CIS-115 Intro to Programming &amp; Logic</u>	<u>3.00</u>
<u>CIV-240 Project Management</u>	<u>3.00</u>
<u>CMT-120 Codes and Inspections</u>	<u>3.00</u>
<u>CMT-210 Construction Management Fundamentals</u>	<u>3.00</u>
<u>CMT-212 Total Safety Performance</u>	<u>3.00</u>
<u>CMT-214 Planning and Scheduling</u>	<u>3.00</u>
<u>CMT-216 Costs and Productivity</u>	<u>3.00</u>
<u>CMT-218 Human Relations Issues</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>

<u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>CSC-153 C# Programming</u>	<u>3.00</u>
<u>CSC-251 Advanced JAVA Programming</u>	<u>3.00</u>
<u>CSC-253 Advanced C# Programming</u>	<u>3.00</u>
<u>CST-131 OSHA/Safety/Certification</u>	<u>3.00</u>
<u>CST-241 Planning/Estimating I</u>	<u>3.00</u>
<u>CTI-110 Web, Programming, and Database Foundation</u>	<u>3.00</u>
<u>CTI-120 Network and Security Foundation</u>	<u>3.00</u>
<u>CTI-130 Os and Device Foundation</u>	<u>6.00</u>
<u>CTI-140 Virtualization Concepts</u>	<u>3.00</u>
<u>CTS-115 Information Systems Business Concepts</u>	<u>3.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>CTS-155 Tech Support Functions</u>	<u>3.00</u>
<u>CTS-230 Advanced Spreadsheet</u>	<u>3.00</u>
<u>CTS-240 Project Management</u>	<u>3.00</u>
<u>DBA-110 Database Concepts</u>	<u>3.00</u>
<u>DBA-120 Database Programming I</u>	<u>3.00</u>
<u>DFT-111 Technical Drafting I</u>	<u>2.00</u>
<u>DFT-112 Technical Drafting II</u>	<u>2.00</u>
<u>DFT-121 Introduction to GD&amp;T</u>	<u>2.00</u>
<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>EGR-110 Intro to Engineering Tech</u>	<u>2.00</u>
<u>EGR-125 Appl Software for Tech</u>	<u>2.00</u>
<u>EGR-251 Statics</u>	<u>3.00</u>
<u>EGR-252 Strength of Materials</u>	<u>3.00</u>
<u>ELC-112 DC/AC Electricity</u>	<u>5.00</u>
<u>ELC-113 Residential Wiring</u>	<u>4.00</u>
<u>ELC-115 Industrial Wiring</u>	<u>4.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-118 National Electrical Code</u>	<u>2.00</u>
<u>ELC-119 NEC Calculations</u>	<u>2.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>
<u>ELC-126 Electrical Computations</u>	<u>3.00</u>
<u>ELC-128 Introduction to Programmable Logic Controller</u>	<u>3.00</u>
<u>ELC-130 Advanced Motors/Controls</u>	<u>3.00</u>

<u>ELC-138 DC Circuit Analysis</u>	<u>4.00</u>
<u>ELC-139 AC Circuit Analysis</u>	<u>4.00</u>
<u>ELC-213 Instrumentation</u>	<u>4.00</u>
<u>ELC-215 Electrical Maintenance</u>	<u>3.00</u>
<u>ELN-131 Analog Electronics I</u>	<u>4.00</u>
<u>ELN-132 Analog Electronics II</u>	<u>4.00</u>
<u>ELN-133 Digital Electronics</u>	<u>4.00</u>
<u>ELN-150 Computer-Aided Drafting for Electronics</u>	<u>2.00</u>
<u>ELN-232 Introduction to Microprocessors</u>	<u>4.00</u>
<u>ELN-234 Communication Systems</u>	<u>4.00</u>
<u>ELN-260 Prog Logic Controllers</u>	<u>4.00</u>
<u>HYD-110 Hydraulics/Pneumatics I</u>	<u>3.00</u>
<u>ISC-113 Industrial Specifications</u>	<u>1.00</u>
<u>ISC-214 Job Analysis/Wages &amp; Salary</u>	<u>3.00</u>
<u>ISC-220 Lean Manufacturing</u>	<u>3.00</u>
<u>ISC-225 Facility Layout</u>	<u>4.00</u>
<u>ISC-243 Production and Operations Management I</u>	<u>3.00</u>
<u>ISC-255 Engineering Economy</u>	<u>3.00</u>
<u>MAC-111 Machining Technology I</u>	<u>6.00</u>
<u>MAC-112 Machining Technology II</u>	<u>6.00</u>
<u>MAC-114 Introduction to Metrology</u>	<u>2.00</u>
<u>MAC-122 CNC Turning</u>	<u>2.00</u>
<u>MAC-124 CNC Milling</u>	<u>2.00</u>
<u>MAC-143 Machining Applications III</u>	<u>4.00</u>
<u>MAC-151 Machining Calculations</u>	<u>2.00</u>
<u>MAC-152 Advanced Machining Calculations</u>	<u>2.00</u>
<u>MAC-222 Advanced CNC Turning</u>	<u>2.00</u>
<u>MAC-224 Advanced CNC Milling</u>	<u>2.00</u>
<u>MAC-229 CNC Programming</u>	<u>2.00</u>
<u>MAC-233 Appl in CNC Machining</u>	<u>6.00</u>
<u>MAC-234 Advanced Multi-Axis Machining</u>	<u>3.00</u>
<u>MAC-248 Production Procedures</u>	<u>2.00</u>
<u>MAT-143 Quantitative Literacy</u>	<u>3.00</u>
<u>MAT-152 Statistical Methods I</u>	<u>4.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-263 Brief Calculus</u>	<u>4.00</u>

<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MAT-272 Calculus II</u>	<u>4.00</u>
<u>MAT-273 Calculus III</u>	<u>4.00</u>
<u>MEC-110 Introduction to CAD/CAM</u>	<u>2.00</u>
<u>MEC-111 Machine Processes I</u>	<u>3.00</u>
<u>MEC-142 Physical Metallurgy</u>	<u>2.00</u>
<u>MEC-145 Manufacturing Materials I</u>	<u>3.00</u>
<u>MEC-231 Computer-Aided Manufacturing I</u>	<u>3.00</u>
<u>MEC-232 Computer-Aided Manufacturing II</u>	<u>3.00</u>
<u>MEC-265 Fluid Mechanics</u>	<u>3.00</u>
<u>MEC-275 Engineering Mechanisms</u>	<u>3.00</u>
<u>NOS-120 Linux/UNIX Single User</u>	<u>3.00</u>
<u>NOS-130 Windows Single User</u>	<u>3.00</u>
<u>NOS-230 Windows Administration I</u>	<u>3.00</u>
<u>OMT-241 Logistics</u>	<u>3.00</u>
<u>PHY-131 Physics-Mechanics</u>	<u>4.00</u>
<u>PHY-132 Physics-Electricity &amp; Magnetism</u>	<u>4.00</u>
<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>PHY-152 College Physics II</u>	<u>4.00</u>
<u>PHY-251 General Physics I</u>	<u>4.00</u>
<u>PHY-252 General Physics II</u>	<u>4.00</u>
<u>SST-140 Green Building and Design Concepts</u>	<u>3.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
<u>WBL-114 Work-Based Learning I</u>	<u>4.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WBL-122 Work-Based Learning II</u>	<u>2.00</u>
<u>WBL-123 Work-Based Learning II</u>	<u>3.00</u>
<u>WBL-131 Work-Based Learning III</u>	<u>1.00</u>
<u>WBL-132 Work-Based Learning III</u>	<u>2.00</u>
<u>WBL-211 Work-Based Learning IV</u>	<u>1.00</u>
<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
<u>WLD-112 Basic Welding Processes</u>	<u>2.00</u>
<u>WLD-115 SMAW (Stick) Plate</u>	<u>5.00</u>
<u>WLD-116 SMAW (stick) Plate/Pipe</u>	<u>4.00</u>

<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	<u>4.00</u>
<u>WLD-122 GMAW (MIG) Plate/Pipe</u>	<u>3.00</u>
<u>WLD-131 GTAW (TIG) Plate</u>	<u>4.00</u>
<u>WLD-132 GTAW (TIG) Plate/Pipe</u>	<u>3.00</u>
<u>WLD-141 Symbols and Specifications</u>	<u>3.00</u>
<u>WLD-143 Welding Metallurgy</u>	<u>2.00</u>
<u>WLD-151 Fabrication I</u>	<u>4.00</u>
<u>WLD-215 SMAW (stick) Pipe</u>	<u>4.00</u>
<u>WLD-231 GTAW (TIG) Pipe</u>	<u>3.00</u>
<u>WLD-261 Certification Practices</u>	<u>2.00</u>
<u>WLD-265 Automated Welding/Cutting</u>	<u>4.00</u>

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### Additional Information:

## Transfer Students

Students planning to transfer to a four-year school should select MAT 171 for the math requirement, and PHY 151 as a Major Elective.

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# Total Credits To Complete

36

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Industrial Engineering Technology](#) / C40240MC

## Industrial Engineering Technology Management Certificate C40240MC

### Industrial Engineering Technology (40240) CIP 15.0612

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">CIV-240 Project Management</a>	<a href="#">3.00</a>
<a href="#">EGR-125 Appl Software for Tech</a>	<a href="#">2.00</a>
<a href="#">ISC-243 Production and Operations Management I</a>	<a href="#">3.00</a>

**Credits: 8**

### First Year Spring:

Take the following courses.

<a href="#">ISC-255 Engineering Economy</a>	<a href="#">3.00</a>
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Take one of the following ISC courses.

<a href="#">ISC-135 Principles of Industrial Management</a>	<a href="#">4.00</a>
<a href="#">ISC-136 Productivity Analysis I</a>	<a href="#">3.00</a>
<a href="#">ISC-225 Facility Layout</a>	<a href="#">4.00</a>

**Credits: 6-7**

### First Year Summer:

Take the following courses.

<a href="#">ISC-214 Job Analysis/Wages &amp; Salary</a>	<a href="#">3.00</a>
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**Credits: 3**

## Total Credits To Complete

**17-18**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Industrial Engineering Technology](#) / C40240IE

## Industrial Engineering Technology Certificate C40240IE

Industrial Engineering Technology (40240) CIP 15.0612

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">EGR-125 Appl Software for Tech</a>	<u>2.00</u>
<a href="#">ISC-112 Industrial Safety</a>	<u>2.00</u>
<a href="#">ISC-132 Manufacturing Quality Control</a>	<u>3.00</u>

**Credits: 7**

### First Year Spring:

Take the following courses.

<a href="#">ISC-136 Productivity Analysis I</a>	<u>3.00</u>
<a href="#">ISC-220 Lean Manufacturing</a>	<u>3.00</u>
<a href="#">ISC-225 Facility Layout</a>	<u>4.00</u>

**Credits: 10**

# Total Credits To Complete

17



# Programs

2020-2021

Program details listed below.

[All Programs](#) / Infant/Toddler Care

## Infant/Toddler Care (55290) CIP 19.0706

🕒 Last updated on Sept. 24, 2019, 12:12 p.m.

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

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

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

### Curriculum Offerings:

SHC - Semester Hour Credits

[Infant/Toddler Care Certificate C55290](#)

[16 SHC total](#)

»

### Additional Information:

See [Early Childhood Education](#) programs.

[C55290 Certificate Academic Plan](#)

### Notes:

For additional information regarding this program, contact the chair, Waynett Taylor, [waynett.taylor@rccc.edu](mailto:waynett.taylor@rccc.edu).

### Faculty Mentors:

Waynett Taylor

*Chair*

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📍 North

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Infant/Toddler Care](#) / C55290

## Infant/Toddler Care Certificate C55290

Infant/Toddler Care (55290) CIP 19.0706




 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 EDU-119 <u>Introduction to Early Childhood Education</u>	<u>4.00</u>
 EDU-144 <u>Child Development I</u>	<u>3.00</u>
 EDU-153 <u>Health, Safety and Nutrition</u>	<u>3.00</u>

**Credits: 10**

### First Year Spring:

Take the following courses.

 EDU-131 <u>Child, Family, and Community</u>	<u>3.00</u>
 EDU-234 <u>Infants, Toddlers, &amp; Twos</u>	<u>3.00</u>

**Credits: 6**

## Total Credits To Complete

**16**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Information Technology

## Information Technology (25590) CIP 11.0103

🕒 Last updated on Sept. 24, 2019, 12:18 p.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Information Technology Associate in Applied Science Degree Cyber Security A25590SC](#) »

[69-70 SHC total](#)

[Information Technology Associate in Applied Science Degree Information Systems A25590IT](#) »

[69-70 SHC total](#)

[Information Technology Associate in Applied Science Degree Networking and Virtualization A25590NT](#) »

[69-70 SHC total](#)

[Information Technology Associate in Applied Science Degree Computer Programming and Development A25590CP](#) »

[69-70 SHC total](#)

[Information Technology Diploma D25590IT](#) »

[36-37 SHC total](#)

[Information Technology System Administration Diploma D25590HW](#) »

[36-37 SHC total](#)

[Information Technology Network Security Administration Certificate C25590NS](#) »

[18 SHC total](#)

[Information Technology Database Administration Certificate C25590DA](#) »

[15 SHC total](#)

[Information Technology Security Essentials Certificate C25590SE](#) »

[15 SHC total](#)

[Information Technology Systems Administration Certificate C25590SA](#) »

[15 SHC total](#)

[Information Technology Windows Administration Certificate C25590WA](#) »

[15 SHC total](#)

[Information Technology Workforce Essentials Certificate C25590WE](#) »

[13-16 SHC total](#)

[Information Technology Cisco Networking Certificate C25590CN](#) »

[12 SHC total](#)

[Information Technology Dot Net Programming Certificate C25590DN](#) >>

[12 SHC total](#)

[Information Technology Essentials Certificate C25590ES](#) >>

[12 SHC total](#)

[Information Technology Productivity Software Certificate C25590SF](#) >>

[12 SHC total](#)

[CCPP Information Technology Essentials Certificate C25590PE](#) >>

[12 SHC total](#)

## Additional Information:

### ACADEMIC PLANS:

[A25590CP Computer Programming and Development AAS](#), [A25590SC Cyber Security AAS](#), [A25590IT Information Systems AAS](#), [A25590NT Networking and Virtualization AAS](#), [D25590IT Diploma](#), [D25590HW System Administration Diploma](#), [C25590NS Network Security Administration Certificate](#), [C25590SA Systems Administration Certificate](#), [C25590SE Security Essentials Certificate](#), [C25590DA Database Administration Certificate](#), [C25590WA Windows Administration Certificate](#), [C25590WD Workforce Essentials Certificate](#), [C25590DN Dot Net Programming Certificate](#), [C25590ES Essentials Certificate](#), [C25590SF Productivity Software Certificate](#), [C25590CN Cisco Networking Certificate](#)

## Notes:

For additional information regarding this program, contact the chair, Zackary Hubbard, [zackary.hubbard@rccc.edu](mailto:zackary.hubbard@rccc.edu).

## Faculty Mentors:

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Faculty

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 CBTC

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / A25590SC

## Information Technology Associate in Applied Science Degree Cyber Security A25590SC

Information Technology (25590) CIP 11.0103




🕒 Last updated on Feb. 6, 2020, 11:06 a.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
 <a href="#">CTI-110 Web, Programming, and Database Foundation</a>	<a href="#">3.00</a>
 <a href="#">CTI-120 Network and Security Foundation</a>	<a href="#">3.00</a>
<a href="#">NET-125 Introduction to Networks</a>	<a href="#">3.00</a>
<a href="#">NET-126 Routing Basics</a>	<a href="#">3.00</a>


**Credits: 15**

Note:

NET 125 will be taught in the first 8-weeks; NET 126 will be taught in the second 8-weeks.

### First Year Spring:

Take the following courses.

 <a href="#">CTS-115 Information Systems Business Concepts</a>	<a href="#">3.00</a>
<a href="#">CTI-130 Os and Device Foundation</a>	<a href="#">6.00</a>
<a href="#">NET-225 Routing &amp; Switching I</a>	<a href="#">3.00</a>
<a href="#">NET-226 Routing and Switching II</a>	<a href="#">3.00</a>

**Credits: 15**

Note:

NET 225 will be taught in the first 8-weeks; NET 226 will be taught in the second 8-weeks.

### First Year Summer:

Take the following courses.

 <a href="#">SEC-110 Security Concepts</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

Take one of the following math courses.

<a href="#">MAT-110 Mathematical Measurement and Literacy</a>	<u>3.00</u>
<a href="#">MAT-143 Quantitative Literacy</a>	<u>3.00</u>
<a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>

**Credits: 9-10**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">SEC-150 Secure Communications</a>	<u>3.00</u>
<a href="#">CCT-112 Ethics &amp; High Technology</a>	<u>3.00</u>
<a href="#">CTI-140 Virtualization Concepts</a>	<u>3.00</u>
<a href="#">NOS-120 Linux/UNIX Single User</a>	<u>3.00</u>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<u>3.00</u>

**Credits: 15**

## Second Year Spring:

Take the following courses.

<a href="#">CTS-240 Project Management</a>	<u>3.00</u>
<a href="#">SEC-160 Security Administration I</a>	<u>3.00</u>
<a href="#">SEC-210 Intrusion Detection</a>	<u>3.00</u>

Take one of the following social/behavioral science courses.

<a href="#">POL-120 American Government</a>	<u>3.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>
<a href="#">SOC-210 Introduction to Sociology</a>	<u>3.00</u>

Take one of the following humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<u>3.00</u>
<a href="#">HUM-110 Technology and Society</a>	<u>3.00</u>
<a href="#">MUS-110 Music Appreciation</a>	<u>3.00</u>

**Credits: 15**

# Total Credits To Complete

69-70

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / A25590IT

## Information Technology Associate in Applied Science Degree Information Systems A25590IT

Information Technology (25590) CIP 11.0103



🕒 Last updated on Feb. 5, 2020, 10:44 a.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
 <a href="#">CTI-110 Web, Programming, and Database Foundation</a>	<u>3.00</u>
 <a href="#">CTI-120 Network and Security Foundation</a>	<u>3.00</u>
 <a href="#">CTS-115 Information Systems Business Concepts</a>	<u>3.00</u>

Take one of the following social/behavioral science courses.

<a href="#">POL-120 American Government</a>	<u>3.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>
<a href="#">SOC-210 Introduction to Sociology</a>	<u>3.00</u>

**Credits: 15**

### First Year Spring:


Take the following courses.

<a href="#">CIS-115 Intro to Programming &amp; Logic</a>	<u>3.00</u>
<a href="#">CTI-130 Os and Device Foundation</a>	<u>6.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">WEB-110 Internet/Web Fundamentals</a>	<u>3.00</u>

**Credits: 15**

### First Year Summer:

Take the following courses.

 <a href="#">DBA-110 Database Concepts</a>	<u>3.00</u>
<a href="#">NET-110 Networking Concepts</a>	<u>3.00</u>

**Credits: 9**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> CTS-130 Spreadsheet	3.00
CTS-155 Tech Support Functions	3.00
DBA-120 Database Programming I	3.00

Take one of the following communication courses.

ENG-112 Writing and Research in the Disciplines	3.00
ENG-114 Professional Research & Reporting	3.00

Take one of the following math courses.

MAT-110 Mathematical Measurement and Literacy	3.00
MAT-143 Quantitative Literacy	3.00
MAT-171 Precalculus Algebra	4.00

**Credits: 15-16**

## Second Year Spring:

Take the following courses.

CTS-230 Advanced Spreadsheet	3.00
CTS-240 Project Management	3.00
NOS-130 Windows Single User	3.00
NOS-230 Windows Administration I	3.00

**Note:**

NOS 130 will be taught in the first 8-weeks; NOS 230 will be taught in the second 8-weeks.

Take one of the following humanities/fine arts courses.

ART-111 Art Appreciation	3.00
HUM-110 Technology and Society	3.00
MUS-110 Music Appreciation	3.00

**Credits: 15**

# Total Credits To Complete

**69-70**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / A25590NT

## Information Technology Associate in Applied Science Degree Networking and Virtualization A25590NT

Information Technology (25590) CIP 11.0103






🕒 Last updated on Feb. 6, 2020, 10:53 a.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
 <a href="#">CTI-110 Web, Programming, and Database Foundation</a>	<a href="#">3.00</a>
 <a href="#">CTI-120 Network and Security Foundation</a>	<a href="#">3.00</a>
 <a href="#">NET-125 Introduction to Networks</a>	<a href="#">3.00</a>
 <a href="#">NET-126 Routing Basics</a>	<a href="#">3.00</a>


**Credits: 15**

Note:

NET 125 will be taught in the first 8-weeks; NET 126 will be taught in the second 8-weeks.

### First Year Spring:

Take the following courses.

 <a href="#">CTS-115 Information Systems Business Concepts</a>	<a href="#">3.00</a>
<a href="#">CTI-130 Os and Device Foundation</a>	<a href="#">6.00</a>
<a href="#">NET-225 Routing &amp; Switching I</a>	<a href="#">3.00</a>
<a href="#">NET-226 Routing and Switching II</a>	<a href="#">3.00</a>

**Credits: 15**

Note:

NET 225 will be taught in the first 8-weeks; NET 226 will be taught in the second 8-weeks.

### First Year Summer:

Take the following courses.

<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">SEC-110 Security Concepts</a>	<a href="#">3.00</a>

Take one of the following math courses.

<u>MAT-110 Mathematical Measurement and Literacy.</u>	<u>3.00</u>
<u>MAT-143 Quantitative Literacy.</u>	<u>3.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>

**Credits: 9-10**

## Second Year Fall:

Take the following courses.

<u>CTI-140 Virtualization Concepts</u>	<u>3.00</u>
<u>NET-175 Wireless Technology.</u>	<u>3.00</u>
<u>NOS-120 Linux/UNIX Single User</u>	<u>3.00</u>

Take one of the following communication courses.

<u>ENG-112 Writing and Research in the Disciplines</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>

Take one of the following humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
<u>HUM-110 Technology and Society.</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>

**Credits: 15**

## Second Year Spring:

Take the following courses.

<u>CTS-240 Project Management</u>	<u>3.00</u>
<u>NOS-130 Windows Single User</u>	<u>3.00</u>
<u>NOS-230 Windows Administration I</u>	<u>3.00</u>
<u>SEC-160 Security Administration I</u>	<u>3.00</u>

**Note:**

NOS 130 will be taught in the first 8-weeks; NOS 230 will be taught in the second 8-weeks.

Take one of the following social/behavioral science courses.

<u>POL-120 American Government</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>

**Credits: 15**

# Total Credits To Complete

69-70

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / A25590CP

## Information Technology Associate in Applied Science Degree Computer Programming and Development A25590CP

Information Technology (25590) CIP 11.0103





🕒 Last updated on Feb. 6, 2020, 11:10 a.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
 <a href="#">CTI-110 Web, Programming, and Database Foundation</a>	<a href="#">3.00</a>
 <a href="#">CTI-120 Network and Security Foundation</a>	<a href="#">3.00</a>
 <a href="#">CTS-115 Information Systems Business Concepts</a>	<a href="#">3.00</a>
<a href="#">CIS-115 Intro to Programming &amp; Logic</a>	<a href="#">3.00</a>

**Credits: 15**

### First Year Spring:

Take the following courses.

<a href="#">CSC-134 C++ Programming</a>	<a href="#">3.00</a>
<a href="#">CSC-139 Visual BASIC Programming</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">WEB-110 Internet/Web Fundamentals</a>	<a href="#">3.00</a>

Take one of the following humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">HUM-110 Technology and Society</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>

**Credits: 15**

### First Year Summer:

Take the following courses.

<a href="#">DBA-110 Database Concepts</a>	<a href="#">3.00</a>
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Take one of the following social/behavioral sciences courses.

<u>POL-120 American Government</u>	<u>3.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>

Take one of the following math courses.

<u>MAT-110 Mathematical Measurement and Literacy</u>	<u>3.00</u>
<u>MAT-143 Quantitative Literacy</u>	<u>3.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>

**Credits: 9-10**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>CSC-121 Python Programming</u>	<u>3.00</u>
<u>CSC-153 C# Programming</u>	<u>3.00</u>
<u>DBA-120 Database Programming I</u>	<u>3.00</u>

Take one of the following communications courses.

<u>ENG-112 Writing and Research in the Disciplines</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>

**Credits: 15**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <u>CSC-251 Advanced JAVA Programming</u>	<u>3.00</u>
<u>CSC-253 Advanced C# Programming</u>	<u>3.00</u>
<u>CTI-130 Os and Device Foundation</u>	<u>6.00</u>
<u>CTS-240 Project Management</u>	<u>3.00</u>

**Credits: 15**

# Total Credits To Complete

**69-70**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / D25590IT

## Information Technology Diploma D25590IT

Information Technology (25590) CIP 11.0103




 Last updated on Sept. 6, 2019, 10:20 a.m.

The following is a suggested program of study for completing this diploma in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
 <a href="#">CTI-110 Web, Programming, and Database Foundation</a>	<a href="#">3.00</a>
 <a href="#">CTI-120 Network and Security Foundation</a>	<a href="#">3.00</a>
<a href="#">CIS-115 Intro to Programming &amp; Logic</a>	<a href="#">3.00</a>


Take one of the following math courses.

<a href="#">MAT-110 Mathematical Measurement and Literacy</a>	<a href="#">3.00</a>
<a href="#">MAT-143 Quantitative Literacy</a>	<a href="#">3.00</a>
<a href="#">MAT-171 Precalculus Algebra</a>	<a href="#">4.00</a>

**Credits: 15-16**

### First Year Spring:

Take the following courses.

 <a href="#">CTS-115 Information Systems Business Concepts</a>	<a href="#">3.00</a>
<a href="#">CTI-130 Os and Device Foundation</a>	<a href="#">6.00</a>
<a href="#">WEB-110 Internet/Web Fundamentals</a>	<a href="#">3.00</a>

Take one of the following courses.

<a href="#">CSC-139 Visual BASIC Programming</a>	<a href="#">3.00</a>
<a href="#">NOS-130 Windows Single User</a>	<a href="#">3.00</a>

**Credits: 15**

### First Year Summer:

Take the following courses.



✔ [DBA-110 Database Concepts](#)

[3.00](#)

[ENG-111 Writing and Inquiry](#)

[3.00](#)

**Credits: 6**

---

# Total Credits To Complete

**36-37**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / D25590HW

## Information Technology System Administration Diploma D25590HW

### Information Technology (25590) CIP 11.0103




🕒 Last updated on Sept. 6, 2019, 10:20 a.m.

The following is a suggested program of study for completing this diploma in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:


Take the following courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
 <a href="#">CTI-110 Web, Programming, and Database Foundation</a>	<u>3.00</u>
 <a href="#">CTI-120 Network and Security Foundation</a>	<u>3.00</u>
<a href="#">NET-125 Introduction to Networks</a>	<u>3.00</u>
<a href="#">NOS-120 Linux/UNIX Single User</a>	<u>3.00</u>

**Credits: 15**

### First Year Spring:

Take the following courses.

 <a href="#">CTS-115 Information Systems Business Concepts</a>	<u>3.00</u>
<a href="#">CTI-130 Os and Device Foundation</a>	<u>6.00</u>
<a href="#">CTI-140 Virtualization Concepts</a>	<u>3.00</u>

Take one of the following math courses.

<a href="#">MAT-110 Mathematical Measurement and Literacy</a>	<u>3.00</u>
<a href="#">MAT-143 Quantitative Literacy</a>	<u>3.00</u>
<a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>

**Credits: 15-16**

### First Year Summer:

Take the following courses.

<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">SEC-110 Security Concepts</a>	<u>3.00</u>

**Credits: 6**

# Total Credits To Complete

36-37

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590NS

## Information Technology Network Security Administration Certificate C25590NS

Information Technology (25590) CIP 11.0103

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Summer:

Take the following courses.

<a href="#">CTI-120 Network and Security Foundation</a>	<u>3.00</u>
---	-------------

**Credits: 3**

### First Year Fall:

Take the following courses.

<a href="#">NET-125 Introduction to Networks</a>	<u>3.00</u>
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<a href="#">NET-126 Routing Basics</a>	<u>3.00</u>
--	-------------

<a href="#">SEC-110 Security Concepts</a>	<u>3.00</u>
---	-------------

**Credits: 9****Note:**

NET 125 will be taught in the first 8-weeks. NET 126 will be taught in the second 8-weeks.

### First Year Spring:

Take the following courses.

<a href="#">SEC-150 Secure Communications</a>	<u>3.00</u>
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<a href="#">SEC-160 Security Administration I</a>	<u>3.00</u>
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**Credits: 6**

## Total Credits To Complete

18

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590DA

## Information Technology Database Administration Certificate C25590DA

### Information Technology (25590) CIP 11.0103

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Summer:

Take the following courses.

<a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
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**Credits: 3**

### First Year Fall:

Take the following courses.

<a href="#">CIS-115 Intro to Programming &amp; Logic</a>	<a href="#">3.00</a>
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<a href="#">DBA-110 Database Concepts</a>	<a href="#">3.00</a>
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**Credits: 6**

### First Year Spring:

Take the following courses.

<a href="#">DBA-120 Database Programming I</a>	<a href="#">3.00</a>
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<a href="#">WEB-110 Internet/Web Fundamentals</a>	<a href="#">3.00</a>
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**Credits: 6**

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590SE

## Information Technology Security Essentials Certificate C25590SE

### Information Technology (25590) CIP 11.0103

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Summer:

Take the following courses.

<a href="#">CTI-120 Network and Security Foundation</a>	<u>3.00</u>
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**Credits: 3**

### First Year Fall:

Take the following courses.

<a href="#">CCT-112 Ethics &amp; High Technology</a>	<u>3.00</u>
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<a href="#">SEC-110 Security Concepts</a>	<u>3.00</u>
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**Credits: 6**

### First Year Spring:

Take the following courses.

<a href="#">CTI-130 Os and Device Foundation</a>	<u>6.00</u>
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**Credits: 6**

## Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590SA

## Information Technology Systems Administration Certificate C25590SA Information Technology (25590) CIP 11.0103

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">CTI-120 Network and Security Foundation</a>	<u>3.00</u>
<a href="#">NOS-130 Windows Single User</a>	<u>3.00</u>

**Credits: 6**

### First Year Spring:

Take the following courses.

<a href="#">CTI-130 Os and Device Foundation</a>	<u>6.00</u>
<a href="#">CTI-140 Virtualization Concepts</a>	<u>3.00</u>

**Credits: 9**

# Total Credits To Complete

**15**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590WA

## Information Technology Windows Administration Certificate C25590WA

### Information Technology (25590) CIP 11.0103

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">CTI-120 Network and Security Foundation</a>	<u>3.00</u>
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<a href="#">CTI-130 Os and Device Foundation</a>	<u>6.00</u>
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**Credits: 9**

### First Year Spring:

Take the following courses.

<a href="#">NOS-130 Windows Single User</a>	<u>3.00</u>
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<a href="#">NOS-230 Windows Administration I</a>	<u>3.00</u>
--	-------------

**Credits: 6**

**Note:**

NOS 130 will be taught in the first 8-weeks. NOS 230 will be taught in the second 8-weeks.

# Total Credits To Complete

**15**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590WE

## Information Technology Workforce Essentials Certificate C25590WE

### Information Technology (25590) CIP 11.0103

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>CTI-110 Web, Programming, and Database Foundation</u>	<u>3.00</u>
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<u>CTI-120 Network and Security Foundation</u>	<u>3.00</u>
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**Credits: 6**

### First Year Spring:

Take the following courses.

<u>CTI-130 Os and Device Foundation</u>	<u>6.00</u>
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Take one of the following work-based learning courses.

<u>WBL-110 World of Work</u>	<u>1.00</u>
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<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
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<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
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<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
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<u>WBL-114 Work-Based Learning I</u>	<u>4.00</u>
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**Credits: 7-10**

## Total Credits To Complete

**13-16**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590CN

## Information Technology Cisco Networking Certificate C25590CN

### Information Technology (25590) CIP 11.0103

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in one semester. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u><a href="#">NET-125 Introduction to Networks</a></u>	<u><a href="#">3.00</a></u>
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<u><a href="#">NET-126 Routing Basics</a></u>	<u><a href="#">3.00</a></u>
---	-----------------------------

**Credits: 6**

**Note:**

NET 125 will be taught in the first 8-weeks; NET 126 will be taught in the second 8-weeks.

### First Year Spring:

Take the following courses.

<u><a href="#">NET-225 Routing &amp; Switching I</a></u>	<u><a href="#">3.00</a></u>
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<u><a href="#">NET-226 Routing and Switching II</a></u>	<u><a href="#">3.00</a></u>
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**Credits: 6**

**Note:**

NET 225 will be taught in the first 8-weeks; NET 226 will be taught in the second 8-weeks.

## Total Credits To Complete

**12**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590DN

## Information Technology Dot Net Programming Certificate C25590DN Information Technology (25590) CIP 11.0103

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Summer:

Take the following courses.

CIS-115 Intro to Programming & Logic 3.00

**Credits: 3**

### First Year Fall:

Take the following courses.

CSC-153 C# Programming 3.00

**Credits: 3**

### First Year Spring:

Take the following courses.

CSC-139 Visual BASIC Programming 3.00

CSC-253 Advanced C# Programming 3.00

**Credits: 6**

# Total Credits To Complete

**12**

# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590ES

## Information Technology Essentials Certificate C25590ES

Information Technology (25590) CIP 11.0103

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">CTI-110 Web, Programming, and Database Foundation</a>	<u>3.00</u>
<a href="#">CTI-120 Network and Security Foundation</a>	<u>3.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<a href="#">CTS-115 Information Systems Business Concepts</a>	<u>3.00</u>
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**Credits: 3**

## Total Credits To Complete

**12**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590SF

## Information Technology Productivity Software Certificate C25590SF Information Technology (25590) CIP 11.0103

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Summer:

Take the following courses.

CIS-110 Introduction to Computers 3.00

**Credits: 3**

### First Year Fall:

Take the following courses

CTS-130 Spreadsheet 3.00

DBA-110 Database Concepts 3.00

**Credits: 6**

### First Year Spring:

Take the following courses.

CTS-230 Advanced Spreadsheet 3.00

**Credits: 3**

# Total Credits To Complete

**12**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Information Technology](#) / C25590PE

## CCPP Information Technology Essentials Certificate C25590PE Information Technology (25590) CIP 11.0103

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">CTI-110 Web, Programming, and Database Foundation</a>	<u>3.00</u>
<a href="#">CTI-120 Network and Security Foundation</a>	<u>3.00</u>
<a href="#">CTS-115 Information Systems Business Concepts</a>	<u>3.00</u>

**Credits: 12**

# Total Credits To Complete

**12**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Manicuring/Nail Technology

## Manicuring/Nail Technology (55400) CIP 12.0410

🕒 Last updated on April 2, 2020, 8:32 a.m.

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

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

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

### Curriculum Offerings:

SHC - Semester Hour Credits

[Manicuring/Nail Technology Certificate C55400](#)

12 SHC total

»

[CCPP Manicuring/Nail Technology Certificate C55400PB](#)

12 SHC total

»

### Additional Information:

[Steps to Enroll for Cosmetology Programs](#)

### Notes:

For additional information regarding this program, contact the chair, Ronald Wolfe, [ronald.wolfe@rccc.edu](mailto:ronald.wolfe@rccc.edu).

### Faculty Mentors:

Ronald Wolfe

*Chair*

✉ [ronald.wolfe@rccc.edu](mailto:ronald.wolfe@rccc.edu)

📞 [704-216-3927](tel:704-216-3927)

📍 College Station

Michelle Sofia

*Faculty*

✉ [michelle.sofia@rccc.edu](mailto:michelle.sofia@rccc.edu)

📞 [704-216-3928](tel:704-216-3928)

📍 College Station

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Manicuring/Nail Technology](#) / C55400

## Manicuring/Nail Technology Certificate C55400

Manicuring/Nail Technology (55400) CIP 12.0410

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in one semester. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First 8 Weeks:

Take the following courses.

[COS-121 Manicure/Nail Technology I](#) 6.00

**Credits: 6**

### Second 8 Weeks:

Take the following courses.

[COS-222 Manicure/Nail Technology II](#) 6.00

**Credits: 6**

# Total Credits To Complete

**12**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Manicuring/Nail Technology](#) / C55400PB

## CCPP Manicuring/Nail Technology Certificate C55400PB Manicuring/Nail Technology (55400) CIP 12.0410

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The 🎯 symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">COS-121 Manicure/Nail Technology_I</a>	<u>6.00</u>
<a href="#">COS-222 Manicure/Nail Technology_II</a>	<u>6.00</u>

**Credits: 12**

# Total Credits To Complete

**12**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Mechanical Drafting Technology

## Mechanical Drafting Technology

(50340) CIP 15.1306

🕒 Last updated on Sept. 24, 2019, 12:18 p.m.

The mechanical drafting technology curriculum prepares students to apply technical skills and advanced computer software and hardware to create working drawings, graphic representations and computer simulations for mechanical and industrial designs.

Course work includes mathematics, natural sciences, engineering sciences and technology and instruction in engineering graphics, specification interpretation, geometric dimensioning and tolerancing, drafting calculations, two dimensional and three dimensional engineering design, solids modeling, engineering animation, computer-aided drafting (CAD), computer-aided design (CADD) and manufacturing materials and processes.

Graduates should qualify to obtain occupations such as technical service providers, engineering technicians, CAD systems managers, industrial and technology managers, research technicians and graphic technicians. Graduates should qualify for employment in mechanical areas such as manufacturing, fabrication, research and development, and service industries.

### Curriculum Offerings:

SHC - Semester Hour Credits

[CCPP Mechanical Drafting Technology Certificate C50340PB](#)

13 SHC total

»

[Mechanical Drafting Technology Certificate C50340](#)

13 SHC total

»

### Additional Information:

[C50340 Certificate Academic Plan](#)

### Notes:

For additional information regarding this program, contact the chair, Tony Bean, [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu).

### Faculty Mentors:

Tony Bean

*Chair*

✉ [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu)

📞 [704-216-3917](tel:704-216-3917)

📍 Advanced Technology Center at NCRC

Aaron Cameron

*Faculty*

✉ [aaron.cameron@rccc.edu](mailto:aaron.cameron@rccc.edu)

📞 [704-216-3822](tel:704-216-3822)

📍 Advanced Technology Center at NCRC

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Mechanical Drafting Technology](#) / C50340

## Mechanical Drafting Technology Certificate C50340

Mechanical Drafting Technology (50340) CIP 15.1306




🕒 Last updated on Sept. 6, 2019, 10:22 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">DFT-111 Technical Drafting I</a>	<u>2.00</u>
 <a href="#">DFT-151 CAD I</a>	<u>3.00</u>
 <a href="#">MEC-111 Machine Processes I</a>	<u>3.00</u>

**Credits: 8**

### First Year Spring:

Take the following courses.

 <a href="#">DFT-112 Technical Drafting II</a>	<u>2.00</u>
 <a href="#">DFT-154 Intro to Solid Modeling</a>	<u>3.00</u>

**Credits: 5**

## Total Credits To Complete

**13**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Mechanical Drafting Technology](#) / C50340PB

## CCPP Mechanical Drafting Technology Certificate C50340PB

Mechanical Drafting Technology (50340) CIP 15.1306

🕒 Last updated on Sept. 6, 2019, 10:22 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">DFT-111 Technical Drafting I</a>	<u>2.00</u>
<a href="#">DFT-112 Technical Drafting II</a>	<u>2.00</u>
<a href="#">DFT-151 CAD I</a>	<u>3.00</u>
<a href="#">DFT-154 Intro to Solid Modeling</a>	<u>3.00</u>
<a href="#">MEC-111 Machine Processes I</a>	<u>3.00</u>

**Credits: 13**

# Total Credits To Complete

**13**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Mechanical Engineering Technology

## Mechanical Engineering Technology (40320) CIP 15.0805

🕒 Last updated on Sept. 24, 2019, 12:21 p.m.

The mechanical engineering technology curriculum prepares students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Students are prepared through the study and application of principles from mathematics, natural sciences, and technology and applied processes in mechanical engineering.

Coursework includes mathematics, natural sciences, engineering sciences and technology. Instruction covers 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. 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. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME and NICET.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Mechanical Engineering Technology Associate in Applied Science Degree A40320](#) >>

66-67 SHC total

[Mechanical Engineering Technology Diploma D40320](#) >>

38 SHC total

### Additional Information:

**ACADEMIC PLANS:** [A40320 AAS](#), [D40320 Diploma](#)

### Notes:

For additional information regarding this program, contact the chair, Tony Bean, [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu).

### Faculty Mentors:

Tony Bean

*Chair*

✉ [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu)

📞 [704-216-3917](tel:704-216-3917)

📍 Advanced Technology Center at NCRC

Aaron Cameron

*Faculty*

✉ [aaron.cameron@rccc.edu](mailto:aaron.cameron@rccc.edu)

📞 [704-216-3822](tel:704-216-3822)

📍 Advanced Technology Center at NCRC

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Mechanical Engineering Technology](#) / A40320

## Mechanical Engineering Technology Associate in Applied Science Degree A40320

Mechanical Engineering Technology (40320) CIP 15.0805

🕒 Last updated on March 5, 2020, 10:51 a.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">DFT-151 CAD I</a>	<u>3.00</u>
<a href="#">DFT-111 Technical Drafting I</a>	<u>2.00</u>
<a href="#">MEC-111 Machine Processes I</a>	<u>3.00</u>

Take one of the following math courses.

<a href="#">MAT-121 Algebra/Trigonometry I</a>	<u>3.00</u>
<a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 14-15**

### First Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">DFT-154 Intro to Solid Modeling</a>	<u>3.00</u>
<a href="#">DFT-112 Technical Drafting II</a>	<u>2.00</u>
<a href="#">DFT-121 Introduction to GD&amp;T</a>	<u>2.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>

Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<a href="#">ANT-210 General Anthropology</a>	<u>3.00</u>
<a href="#">ANT-220 Cultural Anthropology</a>	<u>3.00</u>
<a href="#">ANT-230 Physical Anthropology</a>	<u>3.00</u>
<a href="#">ANT-230A Physical Anthropology Lab</a>	<u>1.00</u>

<u>ANT-240 Archaeology.</u>	<u>3.00</u>
<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>
<u>PSY-243 Child Psychology.</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology.</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality.</u>	<u>3.00</u>
<u>PSY-275 Health Psychology.</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology.</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology.</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family.</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>

<a href="#">SOC-234 Sociology of Gender</a>	<a href="#">3.00</a>
<a href="#">SOC-240 Social Psychology</a>	<a href="#">3.00</a>
<a href="#">SOC-242 Sociology of Deviance</a>	<a href="#">3.00</a>
<a href="#">SOC-250 Sociology of Religion</a>	<a href="#">3.00</a>

**Credits: 13**

## First Year Summer:

Take 8 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 8**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">EGR-251 Statics</a>	<a href="#">3.00</a>
<a href="#">MEC-265 Fluid Mechanics</a>	<a href="#">3.00</a>

Take one of the following communication courses.

<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<a href="#">3.00</a>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<a href="#">3.00</a>

Take one of the following physics courses.

<input checked="" type="checkbox"/> <a href="#">PHY-131 Physics-Mechanics</a>	<a href="#">4.00</a>
<input checked="" type="checkbox"/> <a href="#">PHY-151 College Physics I</a>	<a href="#">4.00</a>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 16**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">EGR-252 Strength of Materials</a>	<a href="#">3.00</a>
<input checked="" type="checkbox"/> <a href="#">MEC-145 Manufacturing Materials I</a>	<a href="#">3.00</a>
<a href="#">MEC-275 Engineering Mechanisms</a>	<a href="#">3.00</a>

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>



<u>ART-121 Two-Dimensional Design</u>	<u>3.00</u>
<u>ART-131 Drawing I</u>	<u>3.00</u>
<u>ART-132 Drawing II</u>	<u>3.00</u>
<u>ART-240 Painting I</u>	<u>3.00</u>
<u>ART-241 Painting II</u>	<u>3.00</u>
<u>ART-244 Watercolor</u>	<u>3.00</u>
<u>ART-261 Photography I</u>	<u>3.00</u>
<u>ART-262 Photography II</u>	<u>3.00</u>
<u>ART-266 Videography I</u>	<u>3.00</u>
<u>ART-281 Sculpture I</u>	<u>3.00</u>
<u>ART-283 Ceramics I</u>	<u>3.00</u>
<u>ART-288 Studio</u>	<u>3.00</u>
<u>DRA-111 Theatre Appreciation</u>	<u>3.00</u>
<u>DRA-126 Storytelling</u>	<u>3.00</u>
<u>ENG-125 Creative Writing I</u>	<u>3.00</u>
<u>ENG-131 Introduction to Literature</u>	<u>3.00</u>
<u>ENG-231 American Literature I</u>	<u>3.00</u>
<u>ENG-232 American Literature II</u>	<u>3.00</u>
<u>ENG-241 British Literature I</u>	<u>3.00</u>
<u>ENG-242 British Literature II</u>	<u>3.00</u>
<u>ENG-261 World Literature I</u>	<u>3.00</u>
<u>ENG-262 World Literature II</u>	<u>3.00</u>
<u>ENG-272 Southern Literature</u>	<u>3.00</u>
<u>ENG-273 African-American Literature</u>	<u>3.00</u>
<u>ENG-274 Literature by Women</u>	<u>3.00</u>
<u>HUM-110 Technology and Society</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>
<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>

<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

## MAJOR ELECTIVES Course List:

Select a minimum of 17 semester hour credits (SHC) from the following courses. This may include up to 4 SHC from WBL course/combination of courses. ELC, MAT, and WLD coursework is limited to a total of 9 SHC each.

<u>ATR-112 Intro to Automation</u>	<u>3.00</u>
<u>ATR-281 Automated Manufacturing</u>	<u>4.00</u>
<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>CIS-115 Intro to Programming &amp; Logic</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>ELC-112 DC/AC Electricity</u>	<u>5.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>
<u>ELC-128 Introduction to Programmable LogicController</u>	<u>3.00</u>
<u>ELC-130 Advanced Motors/Controls</u>	<u>3.00</u>
<u>HYD-110 Hydraulics/Pneumatics I</u>	<u>3.00</u>
<u>ISC-112 Industrial Safety</u>	<u>2.00</u>
<u>ISC-132 Manufacturing Quality Control</u>	<u>3.00</u>
<u>MAC-114 Introduction to Metrology</u>	<u>2.00</u>
<u>MAC-122 CNC Turning</u>	<u>2.00</u>
<u>MAC-124 CNC Milling</u>	<u>2.00</u>
<u>MAT-152 Statistical Methods I</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-263 Brief Calculus</u>	<u>4.00</u>
<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MEC-110 Introduction to CAD/CAM</u>	<u>2.00</u>
<u>PHY-132 Physics-Electricity &amp; Magnetism</u>	<u>4.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WLD-110 Cutting Processes</u>	<u>2.00</u>

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WLD-121 GMAW (MIG) FCAW/Plate

4.00

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WLD-131 GTAW (TIG) Plate

4.00

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## Additional Information:

### BSET/MEET Transfer Courses

CHM 151, CIS 115, CSC 134, CSC 139, ELC 112, MAT 152, MAT 172, MAT 263, MAT 271, and PHY 132 are recommended for Major Electives for students pursuing a transfer degree. MAT courses are limited to 5-6 SHC for a total of no more than 9 SHC total for Major Electives MAT courses.

### Manufacturing Courses

ATR 112, ATR 281, ELC 117, ELC 125, ELC 128, HYD 110, ISC 112, ISC 132, MAC 122, MAC 124, MEC 110, WLD 110, WLD 121, and WLD 131 are recommended for Major Electives for students not pursuing a transfer degree.

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# Total Credits To Complete

**66-67**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Mechanical Engineering Technology](#) / D40320

## Mechanical Engineering Technology Diploma D40320

Mechanical Engineering Technology (40320) CIP 15.0805

🕒 Last updated on Feb. 21, 2020, 4:22 p.m.


The following is a suggested program of study for completing this diploma in four semesters. Some students' programs of study may be

different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">DFT-151 CAD I</a>	<a href="#">3.00</a>
<a href="#">DFT-111 Technical Drafting I</a>	<a href="#">2.00</a>
<a href="#">MEC-111 Machine Processes I</a>	<a href="#">3.00</a>

Take one of the following math courses.



<a href="#">MAT-121 Algebra/Trigonometry I</a>	<a href="#">3.00</a>
<a href="#">MAT-171 Precalculus Algebra</a>	<a href="#">4.00</a>

Take 4 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15-16**

### First Year Spring:

Take the following courses.

 <a href="#">DFT-154 Intro to Solid Modeling</a>	<a href="#">3.00</a>
 <a href="#">MEC-145 Manufacturing Materials I</a>	<a href="#">3.00</a>
<a href="#">DFT-112 Technical Drafting II</a>	<a href="#">2.00</a>
<a href="#">DFT-121 Introduction to GD&amp;T</a>	<a href="#">2.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 13**

### First Year Summer:

Take 6 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 6**

## Second Year Fall:

Take the following courses.

<u>PHY-131 Physics-Mechanics</u>	<u>4.00</u>
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**Credits: 4**

## MAJOR ELECTIVES Course List:

Select a minimum of 10 semester hour credits from the following courses. This may include up to 4 SHC from WBL course/combination of courses. ELC, MAT, and WLD coursework is limited to a total of 9 SHC each.

<u>ATR-112 Intro to Automation</u>	<u>3.00</u>
<u>ATR-281 Automated Manufacturing</u>	<u>4.00</u>
<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>CIS-115 Intro to Programming &amp; Logic</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>EGR-251 Statics</u>	<u>3.00</u>
<u>EGR-252 Strength of Materials</u>	<u>3.00</u>
<u>ELC-112 DC/AC Electricity</u>	<u>5.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>
<u>ELC-128 Introduction to Programmable LogicController</u>	<u>3.00</u>
<u>ELC-130 Advanced Motors/Controls</u>	<u>3.00</u>
<u>HYD-110 Hydraulics/Pneumatics I</u>	<u>3.00</u>
<u>ISC-112 Industrial Safety</u>	<u>2.00</u>
<u>ISC-132 Manufacturing Quality Control</u>	<u>3.00</u>
<u>MAC-114 Introduction to Metrology</u>	<u>2.00</u>
<u>MAC-122 CNC Turning</u>	<u>2.00</u>
<u>MAC-124 CNC Milling</u>	<u>2.00</u>
<u>MAT-152 Statistical Methods I</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-263 Brief Calculus</u>	<u>4.00</u>
<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MEC-110 Introduction to CAD/CAM</u>	<u>2.00</u>
<u>MEC-265 Fluid Mechanics</u>	<u>3.00</u>
<u>MEC-275 Engineering Mechanisms</u>	<u>3.00</u>

<a href="#">PHY-132 Physics-Electricity &amp; Magnetism</a>	<a href="#">4.00</a>
<a href="#">WBL-111 Work-Based Learning I</a>	<a href="#">1.00</a>
<a href="#">WBL-112 Work-Based Learning I</a>	<a href="#">2.00</a>
<a href="#">WBL-121 Work-Based Learning II</a>	<a href="#">1.00</a>
<a href="#">WLD-110 Cutting Processes</a>	<a href="#">2.00</a>
<a href="#">WLD-121 GMAW (MIG) FCAW/Plate</a>	<a href="#">4.00</a>
<a href="#">WLD-131 GTAW (TIG) Plate</a>	<a href="#">4.00</a>

### Additional Information:

## BSET/MEET Transfer Courses

CHM 151, CIS 115, CSC 134, CSC 139, ELC 112, MAT 152, MAT 172, MAT 263, MAT 271, and PHY 132 are recommended for Major Electives for students pursuing a transfer degree. MAT courses are limited to 5-6 SHC for a total of no more than 9 SHC total for Major Electives MAT courses.

## Manufacturing Courses

ATR 112, ATR 281, ELC 117, ELC 125, ELC 128, HYD 110, ISC 112, ISC 132, MAC 122, MAC 124, MEC 110, WLD 110, WLD 121, and WLD 131 are recommended for Major Electives for students not pursuing a transfer degree.

# Total Credits To Complete

38

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Mechatronics Engineering Technology

## Mechatronics Engineering Technology (40350) CIP 15.0403

🕒 Last updated on Sept. 24, 2019, 12:22 p.m.

A course of study that prepares the students through the study and application of principles from mathematics, natural sciences, technology, and applied processes to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems.

Course work includes instruction in mathematics, natural sciences, engineering sciences, technology, 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.

### Curriculum Offerings:

SHC - Semester Hour Credits

<a href="#">Mechatronics Engineering Technology Associate in Applied Science Degree A40350</a> <a href="#">64-65 SHC total</a>	»
<a href="#">Mechatronics Engineering Technology Diploma D40350</a> <a href="#">36-38 SHC total</a>	»
<a href="#">Mechatronics Engineering Technology Certificate C40350</a> <a href="#">12 SHC total</a>	»
<a href="#">CCPP Mechatronics Engineering Technology Certificate C40350PB</a> <a href="#">12 SHC total</a>	»

### Additional Information:

**ACADEMIC PLANS:** [A40350 AAS](#), [D40350 Diploma](#), [C40350 Certificate](#)

### Notes:

For additional information regarding this program, contact the chair, Tony Bean, [tony.bean@rccc.edu](mailto:tony.bean@rccc.edu).

### Faculty Mentors:

Tony Bean	<i>Chair</i>
<hr/>	
✉ <a href="mailto:tony.bean@rccc.edu">tony.bean@rccc.edu</a>	
📞 <a href="tel:704-216-3917">704-216-3917</a>	
📍 Advanced Technology Center at NCRC	

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Mechatronics Engineering Technology](#) / A40350

## Mechatronics Engineering Technology Associate in Applied Science Degree A40350

Mechatronics Engineering Technology (40350) CIP 15.0403

🕒 Last updated on Feb. 21, 2020, 4:25 p.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).



The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">ELC-138 DC Circuit Analysis</a>	<u>4.00</u>
 <a href="#">ISC-112 Industrial Safety</a>	<u>2.00</u>

Take one of the following computer application courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
 <a href="#">EGR-125 Appl Software for Tech</a>	<u>2.00</u>

Take one of the following fluid mechanics courses.

 <a href="#">HYD-110 Hydraulics/Pneumatics I</a>	<u>3.00</u>
 <a href="#">MEC-265 Fluid Mechanics</a>	<u>3.00</u>




Take one of the following math courses.

<a href="#">MAT-121 Algebra/Trigonometry I</a>	<u>3.00</u>
<a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>

**Credits: 14-16**

### First Year Spring:

Take the following courses.

 <a href="#">ATR-112 Intro to Automation</a>	<u>3.00</u>
 <a href="#">ELC-128 Introduction to Programmable Logic Controller</a>	<u>3.00</u>
 <a href="#">ELC-139 AC Circuit Analysis</a>	<u>4.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>



Take one of the following drawing courses.

<input checked="" type="checkbox"/> <a href="#">DFT-151 CAD I</a>	<a href="#">3.00</a>
<input checked="" type="checkbox"/> <a href="#">DFT-154 Intro to Solid Modeling</a>	<a href="#">3.00</a>

**Credits: 16**

## First Year Summer:

Take three semester hour credits from the following standardized list of humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<a href="#">3.00</a>
<a href="#">ART-114 Art History Survey I</a>	<a href="#">3.00</a>
<a href="#">ART-115 Art History Survey II</a>	<a href="#">3.00</a>
<a href="#">ART-121 Two-Dimensional Design</a>	<a href="#">3.00</a>
<a href="#">ART-131 Drawing I</a>	<a href="#">3.00</a>
<a href="#">ART-132 Drawing II</a>	<a href="#">3.00</a>
<a href="#">ART-240 Painting I</a>	<a href="#">3.00</a>
<a href="#">ART-241 Painting II</a>	<a href="#">3.00</a>
<a href="#">ART-244 Watercolor</a>	<a href="#">3.00</a>
<a href="#">ART-261 Photography I</a>	<a href="#">3.00</a>
<a href="#">ART-262 Photography II</a>	<a href="#">3.00</a>
<a href="#">ART-266 Videography I</a>	<a href="#">3.00</a>
<a href="#">ART-281 Sculpture I</a>	<a href="#">3.00</a>
<a href="#">ART-283 Ceramics I</a>	<a href="#">3.00</a>
<a href="#">ART-288 Studio</a>	<a href="#">3.00</a>
<a href="#">DRA-111 Theatre Appreciation</a>	<a href="#">3.00</a>
<a href="#">DRA-126 Storytelling</a>	<a href="#">3.00</a>
<a href="#">ENG-125 Creative Writing I</a>	<a href="#">3.00</a>
<a href="#">ENG-131 Introduction to Literature</a>	<a href="#">3.00</a>
<a href="#">ENG-231 American Literature I</a>	<a href="#">3.00</a>
<a href="#">ENG-232 American Literature II</a>	<a href="#">3.00</a>
<a href="#">ENG-241 British Literature I</a>	<a href="#">3.00</a>
<a href="#">ENG-242 British Literature II</a>	<a href="#">3.00</a>
<a href="#">ENG-261 World Literature I</a>	<a href="#">3.00</a>
<a href="#">ENG-262 World Literature II</a>	<a href="#">3.00</a>
<a href="#">ENG-272 Southern Literature</a>	<a href="#">3.00</a>
<a href="#">ENG-273 African-American Literature</a>	<a href="#">3.00</a>
<a href="#">ENG-274 Literature by Women</a>	<a href="#">3.00</a>
<a href="#">HUM-110 Technology and Society</a>	<a href="#">3.00</a>
<a href="#">HUM-115 Critical Thinking</a>	<a href="#">3.00</a>

<u>HUM-120 Cultural Studies</u>	<u>3.00</u>
<u>HUM-122 Southern Culture</u>	<u>3.00</u>
<u>HUM-130 Myth in Human Culture</u>	<u>3.00</u>
<u>HUM-170 The Holocaust</u>	<u>3.00</u>
<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
<u>MUS-112 Introduction to Jazz</u>	<u>3.00</u>
<u>MUS-210 History of Rock Music</u>	<u>3.00</u>
<u>PHI-230 Introduction to Logic</u>	<u>3.00</u>
<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
<u>REL-110 World Religions</u>	<u>3.00</u>
<u>REL-211 Introduction to Old Testament</u>	<u>3.00</u>
<u>REL-212 Introduction to New Testament</u>	<u>3.00</u>

Take three semester hour credits from the following standardized list of social/behavioral sciences courses.

<u>ANT-210 General Anthropology.</u>	<u>3.00</u>
<u>ANT-220 Cultural Anthropology.</u>	<u>3.00</u>
<u>ANT-230 Physical Anthropology.</u>	<u>3.00</u>
<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology.</u>	<u>3.00</u>
<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>

POL-130 State & Local Government	3.00
POL-220 International Relations	3.00
PSY-110 Life Span Development	3.00
PSY-118 Interpersonal Psychology.	3.00
PSY-150 General Psychology.	3.00
PSY-211 Psychology of Adjustment	3.00
PSY-237 Social Psychology.	3.00
PSY-239 Psychology of Personality.	3.00
PSY-241 Developmental Psychology.	3.00
PSY-243 Child Psychology.	3.00
PSY-246 Adolescent Psychology.	3.00
PSY-249 Psychology of Aging	3.00
PSY-259 Human Sexuality.	3.00
PSY-275 Health Psychology.	3.00
PSY-281 Abnormal Psychology.	3.00
SOC-210 Introduction to Sociology.	3.00
SOC-213 Sociology of the Family.	3.00
SOC-220 Social Problems	3.00
SOC-230 Race and Ethnic Relations	3.00
SOC-234 Sociology of Gender	3.00
SOC-240 Social Psychology.	3.00
SOC-242 Sociology of Deviance	3.00
SOC-250 Sociology of Religion	3.00

**Credits: 6**

## Second Year Fall:

Take the following courses.

✓ ELC-130 Advanced Motors/Controls	3.00
ENG-114 Professional Research & Reporting	3.00

Take one of the following physics courses.

✓ PHY-131 Physics-Mechanics	4.00
✓ PHY-151 College Physics I	4.00

Take 5 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">ELC-213 Instrumentation</a>	<a href="#">4.00</a>
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Take one of the following mechanical drives courses.

<input checked="" type="checkbox"/> <a href="#">MEC-130 Mechanisms</a>	<a href="#">3.00</a>
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<input checked="" type="checkbox"/> <a href="#">MEC-275 Engineering Mechanisms</a>	<a href="#">3.00</a>
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Take 6 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 13**

## MAJOR ELECTIVES Course List:

Select a minimum of 11 semester hour credits (SHC) from the following courses. No more than a total of 9 SHC of MAT may be taken for this program, including General Education and Major Electives. Up to 4 SHC of WBL courses/combination of courses may be taken. Courses selected for CORE courses cannot count toward the required Major Electives.

<a href="#">AHR-110 Introduction to Refrigeration</a>	<a href="#">5.00</a>
<a href="#">AHR-112 Heating Technology</a>	<a href="#">4.00</a>
<a href="#">ATR-281 Automated Manufacturing</a>	<a href="#">4.00</a>
<a href="#">BPR-111 Print Reading</a>	<a href="#">2.00</a>
<a href="#">BPR-121 Blueprint Reading-Mechanical</a>	<a href="#">2.00</a>
<a href="#">BPR-130 Print Reading-Construction</a>	<a href="#">3.00</a>
<a href="#">BUS-110 Introduction to Business</a>	<a href="#">3.00</a>
<a href="#">BUS-115 Business Law I</a>	<a href="#">3.00</a>
<a href="#">BUS-121 Business Math</a>	<a href="#">3.00</a>
<a href="#">CCT-112 Ethics &amp; High Technology</a>	<a href="#">3.00</a>
<a href="#">CHM-151 General Chemistry I</a>	<a href="#">4.00</a>
<a href="#">CHM-152 General Chemistry II</a>	<a href="#">4.00</a>
<a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
<a href="#">CIS-115 Intro to Programming &amp; Logic</a>	<a href="#">3.00</a>
<a href="#">CIV-240 Project Management</a>	<a href="#">3.00</a>
<a href="#">CMT-120 Codes and Inspections</a>	<a href="#">3.00</a>
<a href="#">CMT-210 Construction Management Fundamentals</a>	<a href="#">3.00</a>
<a href="#">CMT-212 Total Safety Performance</a>	<a href="#">3.00</a>
<a href="#">CSC-134 C++ Programming</a>	<a href="#">3.00</a>
<a href="#">CSC-139 Visual BASIC Programming</a>	<a href="#">3.00</a>
<a href="#">CSC-151 JAVA Programming</a>	<a href="#">3.00</a>
<a href="#">CTI-110 Web, Programming, and Database Foundation</a>	<a href="#">3.00</a>

<u>CTI-120 Network and Security Foundation</u>	<u>3.00</u>
<u>CTI-140 Virtualization Concepts</u>	<u>3.00</u>
<u>CTS-115 Information Systems Business Concepts</u>	<u>3.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>DBA-110 Database Concepts</u>	<u>3.00</u>
<u>DBA-120 Database Programming I</u>	<u>3.00</u>
<u>DFT-111 Technical Drafting I</u>	<u>2.00</u>
<u>DFT-112 Technical Drafting II</u>	<u>2.00</u>
<u>DFT-121 Introduction to GD&amp;T</u>	<u>2.00</u>
<u>DFT-151 CAD I</u>	<u>3.00</u>
<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>EGR-110 Intro to Engineering Tech</u>	<u>2.00</u>
<u>EGR-125 Appl Software for Tech</u>	<u>2.00</u>
<u>EGR-150 Introduction to Engineering</u>	<u>2.00</u>
<u>EGR-251 Statics</u>	<u>3.00</u>
<u>EGR-252 Strength of Materials</u>	<u>3.00</u>
<u>ELC-113 Residential Wiring</u>	<u>4.00</u>
<u>ELC-115 Industrial Wiring</u>	<u>4.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-118 National Electrical Code</u>	<u>2.00</u>
<u>ELC-119 NEC Calculations</u>	<u>2.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>
<u>ELC-215 Electrical Maintenance</u>	<u>3.00</u>
<u>ELN-131 Analog Electronics I</u>	<u>4.00</u>
<u>ELN-132 Analog Electronics II</u>	<u>4.00</u>
<u>ELN-133 Digital Electronics</u>	<u>4.00</u>
<u>ELN-150 Computer-Aided Drafting for Electronics</u>	<u>2.00</u>
<u>ELN-232 Introduction to Microprocessors</u>	<u>4.00</u>
<u>ELN-234 Communication Systems</u>	<u>4.00</u>
<u>ELN-260 Prog Logic Controllers</u>	<u>4.00</u>
<u>EPT-120 Sociology of Disaster</u>	<u>3.00</u>
<u>EPT-140 Emergency Management</u>	<u>3.00</u>
<u>EPT-150 Incident Management</u>	<u>3.00</u>
<u>HYD-110 Hydraulics/Pneumatics I</u>	<u>3.00</u>
<u>ISC-113 Industrial Specifications</u>	<u>1.00</u>
<u>ISC-132 Manufacturing Quality Control</u>	<u>3.00</u>

<u>ISC-135 Principles of Industrial Management</u>	<u>4.00</u>
<u>ISC-136 Productivity Analysis I</u>	<u>3.00</u>
<u>ISC-214 Job Analysis/Wages &amp; Salary</u>	<u>3.00</u>
<u>ISC-220 Lean Manufacturing</u>	<u>3.00</u>
<u>ISC-225 Facility Layout</u>	<u>4.00</u>
<u>ISC-243 Production and Operations Management I</u>	<u>3.00</u>
<u>ISC-255 Engineering Economy</u>	<u>3.00</u>
<u>MAC-111 Machining Technology I</u>	<u>6.00</u>
<u>MAC-114 Introduction to Metrology</u>	<u>2.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MAT-272 Calculus II</u>	<u>4.00</u>
<u>MEC-110 Introduction to CAD/CAM</u>	<u>2.00</u>
<u>MEC-111 Machine Processes I</u>	<u>3.00</u>
<u>MEC-130 Mechanisms</u>	<u>3.00</u>
<u>MEC-142 Physical Metallurgy</u>	<u>2.00</u>
<u>MEC-145 Manufacturing Materials I</u>	<u>3.00</u>
<u>MEC-231 Computer-Aided Manufacturing I</u>	<u>3.00</u>
<u>MEC-232 Computer-Aided Manufacturing II</u>	<u>3.00</u>
<u>MEC-265 Fluid Mechanics</u>	<u>3.00</u>
<u>MEC-275 Engineering Mechanisms</u>	<u>3.00</u>
<u>MKT-120 Principles of Marketing</u>	<u>3.00</u>
<u>MKT-123 Fundamentals of Selling</u>	<u>3.00</u>
<u>MKT-220 Advertising and Sales Promotion</u>	<u>3.00</u>
<u>MSM-110 Intro to Motorsports Mgmt</u>	<u>3.00</u>
<u>MSM-210 Motorsports Marketing</u>	<u>3.00</u>
<u>MSM-216 Organization Mobility</u>	<u>2.00</u>
<u>NET-125 Introduction to Networks</u>	<u>3.00</u>
<u>NET-126 Routing Basics</u>	<u>3.00</u>
<u>NET-175 Wireless Technology</u>	<u>3.00</u>
<u>NOS-120 Linux/UNIX Single User</u>	<u>3.00</u>
<u>NOS-130 Windows Single User</u>	<u>3.00</u>
<u>NOS-230 Windows Administration I</u>	<u>3.00</u>
<u>OMT-241 Logistics</u>	<u>3.00</u>
<u>PHY-131 Physics-Mechanics</u>	<u>4.00</u>
<u>PHY-132 Physics-Electricity &amp; Magnetism</u>	<u>4.00</u>

<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>PHY-152 College Physics II</u>	<u>4.00</u>
<u>PHY-251 General Physics I</u>	<u>4.00</u>
<u>SEC-110 Security Concepts</u>	<u>3.00</u>
<u>SEC-150 Secure Communications</u>	<u>3.00</u>
<u>SEC-160 Security Administration I</u>	<u>3.00</u>
<u>SST-140 Green Building and Design Concepts</u>	<u>3.00</u>
<u>TRN-110 Introduction to Transport Technology</u>	<u>2.00</u>
<u>TRN-120 Basic Transportation Electricity</u>	<u>5.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WBL-122 Work-Based Learning II</u>	<u>2.00</u>
<u>WEB-110 Internet/Web Fundamentals</u>	<u>3.00</u>
<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
<u>WLD-112 Basic Welding Processes</u>	<u>2.00</u>
<u>WLD-115 SMAW (Stick) Plate</u>	<u>5.00</u>

Total Credits To Complete

**64-65**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Mechatronics Engineering Technology](#) / D40350

## Mechatronics Engineering Technology Diploma D40350

Mechatronics Engineering Technology (40350) CIP 15.0403

🕒 Last updated on Feb. 21, 2020, 4:25 p.m.

The following is a suggested program of study for completing this diploma in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).



The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">ELC-138 DC Circuit Analysis</a>	<u>4.00</u>
 <a href="#">ISC-112 Industrial Safety</a>	<u>2.00</u>

Take one of the following computer application courses.

 <a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
 <a href="#">EGR-125 Appl Software for Tech</a>	<u>2.00</u>

Take one of the following math courses.




<a href="#">MAT-121 Algebra/Trigonometry I</a>	<u>3.00</u>
<a href="#">MAT-171 Precalculus Algebra</a>	<u>4.00</u>

Take 4 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 15-16**

### First Year Spring:

Take the following courses.

 <a href="#">ATR-112 Intro to Automation</a>	<u>3.00</u>
 <a href="#">ELC-139 AC Circuit Analysis</a>	<u>4.00</u>
 <a href="#">ELC-213 Instrumentation</a>	<u>4.00</u>

Take one of the following physics courses.

 <a href="#">PHY-131 Physics-Mechanics</a>	<u>4.00</u>
 <a href="#">PHY-151 College Physics I</a>	<u>4.00</u>



**Credits: 15**

## First Year Summer:

Take the following courses.

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<u>ENG-111 Writing and Inquiry</u>	<u>3.00</u>
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Take 3 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program.

**Credits: 6**

## MAJOR ELECTIVES Course List:

Select a minimum of 7 semester hour credits (SHC) from the following courses. This may include up to 4 SHC from WBL course/combination of courses. Courses selected for the computer application requirement or the physics requirement cannot count toward the required Major Electives.

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<u>AHR-110 Introduction to Refrigeration</u>	<u>5.00</u>
<u>AHR-112 Heating Technology</u>	<u>4.00</u>
<u>ATR-281 Automated Manufacturing</u>	<u>4.00</u>
<u>BPR-111 Print Reading</u>	<u>2.00</u>
<u>BPR-121 Blueprint Reading-Mechanical</u>	<u>2.00</u>
<u>BPR-130 Print Reading-Construction</u>	<u>3.00</u>
<u>BUS-110 Introduction to Business</u>	<u>3.00</u>
<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-121 Business Math</u>	<u>3.00</u>
<u>CCT-112 Ethics &amp; High Technology</u>	<u>3.00</u>
<u>CHM-151 General Chemistry I</u>	<u>4.00</u>
<u>CHM-152 General Chemistry II</u>	<u>4.00</u>
<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>CIS-115 Intro to Programming &amp; Logic</u>	<u>3.00</u>
<u>CIV-240 Project Management</u>	<u>3.00</u>
<u>CMT-120 Codes and Inspections</u>	<u>3.00</u>
<u>CMT-210 Construction Management Fundamentals</u>	<u>3.00</u>
<u>CMT-212 Total Safety Performance</u>	<u>3.00</u>
<u>CSC-134 C++ Programming</u>	<u>3.00</u>
<u>CSC-139 Visual BASIC Programming</u>	<u>3.00</u>
<u>CSC-151 JAVA Programming</u>	<u>3.00</u>
<u>CTI-110 Web, Programming, and Database Foundation</u>	<u>3.00</u>
<u>CTI-120 Network and Security Foundation</u>	<u>3.00</u>
<u>CTI-140 Virtualization Concepts</u>	<u>3.00</u>

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<u>CTS-115 Information Systems Business Concepts</u>	<u>3.00</u>
<u>CTS-130 Spreadsheet</u>	<u>3.00</u>
<u>DBA-110 Database Concepts</u>	<u>3.00</u>
<u>DBA-120 Database Programming I</u>	<u>3.00</u>
<u>DFT-111 Technical Drafting I</u>	<u>2.00</u>
<u>DFT-112 Technical Drafting II</u>	<u>2.00</u>
<u>DFT-121 Introduction to GD&amp;T</u>	<u>2.00</u>
<u>DFT-151 CAD I</u>	<u>3.00</u>
<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>DFT-254 Intermediate Solid Modeling &amp; Rendering</u>	<u>3.00</u>
<u>EGR-110 Intro to Engineering Tech</u>	<u>2.00</u>
<u>EGR-125 Appl Software for Tech</u>	<u>2.00</u>
<u>EGR-150 Introduction to Engineering</u>	<u>2.00</u>
<u>EGR-251 Statics</u>	<u>3.00</u>
<u>EGR-252 Strength of Materials</u>	<u>3.00</u>
<u>ELC-113 Residential Wiring</u>	<u>4.00</u>
<u>ELC-115 Industrial Wiring</u>	<u>4.00</u>
<u>ELC-117 Motors and Controls</u>	<u>4.00</u>
<u>ELC-118 National Electrical Code</u>	<u>2.00</u>
<u>ELC-119 NEC Calculations</u>	<u>2.00</u>
<u>ELC-125 Diagrams and Schematics</u>	<u>2.00</u>
<u>ELC-128 Introduction to Programmable Logic Controller</u>	<u>3.00</u>
<u>ELC-130 Advanced Motors/Controls</u>	<u>3.00</u>
<u>ELC-215 Electrical Maintenance</u>	<u>3.00</u>
<u>ELN-131 Analog Electronics I</u>	<u>4.00</u>
<u>ELN-132 Analog Electronics II</u>	<u>4.00</u>
<u>ELN-133 Digital Electronics</u>	<u>4.00</u>
<u>ELN-150 Computer-Aided Drafting for Electronics</u>	<u>2.00</u>
<u>ELN-232 Introduction to Microprocessors</u>	<u>4.00</u>
<u>ELN-234 Communication Systems</u>	<u>4.00</u>
<u>ELN-260 Prog Logic Controllers</u>	<u>4.00</u>
<u>EPT-120 Sociology of Disaster</u>	<u>3.00</u>
<u>EPT-140 Emergency Management</u>	<u>3.00</u>
<u>EPT-150 Incident Management</u>	<u>3.00</u>
<u>HYD-110 Hydraulics/Pneumatics I</u>	<u>3.00</u>
<u>ISC-113 Industrial Specifications</u>	<u>1.00</u>
<u>ISC-132 Manufacturing Quality Control</u>	<u>3.00</u>

ISC-135 Principles of Industrial Management	4.00
<u>ISC-136 Productivity Analysis I</u>	<u>3.00</u>
ISC-214 Job Analysis/Wages & Salary	3.00
<u>ISC-220 Lean Manufacturing</u>	<u>3.00</u>
<u>ISC-225 Facility Layout</u>	<u>4.00</u>
<u>ISC-243 Production and Operations Management I</u>	<u>3.00</u>
<u>ISC-255 Engineering Economy</u>	<u>3.00</u>
<u>MAC-111 Machining Technology I</u>	<u>6.00</u>
<u>MAC-114 Introduction to Metrology</u>	<u>2.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>MAT-172 Precalculus Trigonometry</u>	<u>4.00</u>
<u>MAT-271 Calculus I</u>	<u>4.00</u>
<u>MAT-272 Calculus II</u>	<u>4.00</u>
<u>MEC-110 Introduction to CAD/CAM</u>	<u>2.00</u>
<u>MEC-111 Machine Processes I</u>	<u>3.00</u>
<u>MEC-130 Mechanisms</u>	<u>3.00</u>
<u>MEC-142 Physical Metallurgy</u>	<u>2.00</u>
<u>MEC-145 Manufacturing Materials I</u>	<u>3.00</u>
<u>MEC-231 Computer-Aided Manufacturing I</u>	<u>3.00</u>
<u>MEC-232 Computer-Aided Manufacturing II</u>	<u>3.00</u>
<u>MEC-265 Fluid Mechanics</u>	<u>3.00</u>
<u>MEC-275 Engineering Mechanisms</u>	<u>3.00</u>
<u>MKT-120 Principles of Marketing</u>	<u>3.00</u>
<u>MKT-123 Fundamentals of Selling</u>	<u>3.00</u>
<u>MKT-220 Advertising and Sales Promotion</u>	<u>3.00</u>
<u>MSM-110 Intro to Motorsports Mgmt</u>	<u>3.00</u>
<u>MSM-210 Motorsports Marketing</u>	<u>3.00</u>
<u>MSM-216 Organization Mobility</u>	<u>2.00</u>
<u>NET-125 Introduction to Networks</u>	<u>3.00</u>
<u>NET-126 Routing Basics</u>	<u>3.00</u>
<u>NET-175 Wireless Technology</u>	<u>3.00</u>
<u>NOS-120 Linux/UNIX Single User</u>	<u>3.00</u>
<u>NOS-130 Windows Single User</u>	<u>3.00</u>
<u>NOS-230 Windows Administration I</u>	<u>3.00</u>
<u>OMT-241 Logistics</u>	<u>3.00</u>
<u>PHY-131 Physics-Mechanics</u>	<u>4.00</u>
<u>PHY-132 Physics-Electricity &amp; Magnetism</u>	<u>4.00</u>

<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>PHY-152 College Physics II</u>	<u>4.00</u>
<u>PHY-251 General Physics I</u>	<u>4.00</u>
<u>SEC-110 Security Concepts</u>	<u>3.00</u>
<u>SEC-150 Secure Communications</u>	<u>3.00</u>
<u>SEC-160 Security Administration I</u>	<u>3.00</u>
<u>SST-140 Green Building and Design Concepts</u>	<u>3.00</u>
<u>TRN-110 Introduction to Transport Technology</u>	<u>2.00</u>
<u>TRN-120 Basic Transportation Electricity</u>	<u>5.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WBL-122 Work-Based Learning II</u>	<u>2.00</u>
<u>WEB-110 Internet/Web Fundamentals</u>	<u>3.00</u>
<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
<u>WLD-112 Basic Welding Processes</u>	<u>2.00</u>
<u>WLD-115 SMAW (Stick) Plate</u>	<u>5.00</u>

Total Credits To Complete

**36-38**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Mechatronics Engineering Technology](#) / C40350

## Mechatronics Engineering Technology Certificate C40350

Mechatronics Engineering Technology (40350) CIP 15.0403

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>ELC-138 DC Circuit Analysis</u>	<u>4.00</u>
<u>ISC-112 Industrial Safety</u>	<u>2.00</u>

**Credits: 9**

### First Year Spring:

Take the following courses.

<u>ATR-112 Intro to Automation</u>	<u>3.00</u>
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**Credits: 3**

## Total Credits To Complete

**12**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Mechatronics Engineering Technology](#) / C40350PB

## CCPP Mechatronics Engineering Technology Certificate C40350PB Mechatronics Engineering Technology (40350) CIP 15.0403

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">ATR-112 Intro to Automation</a>	<u>3.00</u>
<a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">ELC-138 DC Circuit Analysis</a>	<u>4.00</u>
<a href="#">ISC-112 Industrial Safety</a>	<u>2.00</u>

**Credits: 12**

# Total Credits To Complete

**12**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Motorsports

## Motorsports

(60270) CIP 52.0299

🕒 Last updated on Sept. 24, 2019, 12:23 p.m.

The motorsports curriculum is designed to provide students with the knowledge and skills necessary to perform mid-management level functions in motorsports related companies.

Course work includes instruction in general studies, motorsports fundamentals, principles of management, computer applications, accounting, business mathematics, marketing, advertising and sales promotion, and human relations.

Graduates should qualify for employment or advancement in jobs related to management of motorsports teams/events/activities, as well as production and distribution of motorsports products and services.

## Curriculum Offerings:

SHC - Semester Hour Credits

[Motorsports Associate in Applied Science Degree A60270](#) >>

[65 SHC total](#)

[Motorsports Marketing Diploma D60270MK](#) >>

[40 SHC total](#)

[Motorsports Management Diploma D60270MT](#) >>

[37 SHC total](#)

[CCPP Motorsports Basic Certificate C60270PB](#) >>

[17 SHC total](#)

[CCPP Motorsports Advanced Certificate C60270PA](#) >>

[16 SHC total](#)

[Motorsports Certificate C60270](#) >>

[12 SHC total](#)

## Additional Information:

**ACADEMIC PLANS:** [A60270 AAS](#), [D60270MT Management Diploma](#), [D60270MK Marketing Diploma](#), [C60270 Certificate](#)

## Notes:

For additional information regarding this program, contact the chair, Patrick Wood, [patrick.wood@rccc.edu](mailto:patrick.wood@rccc.edu).

## Faculty Mentors:

Patrick Wood

*Chair*

✉ [patrick.wood@rccc.edu](mailto:patrick.wood@rccc.edu)

📞 [704-216-7265](tel:704-216-7265)

🏠 CBTC

Jacqueline Rumley

*Faculty*

✉ [jacqueline.rumley@rccc.edu](mailto:jacqueline.rumley@rccc.edu)

📞 [704-216-3648](tel:704-216-3648)

🏠 CBTC

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Motorsports](#) / A60270

## Motorsports Associate in Applied Science Degree A60270

Motorsports (60270) CIP 52.0299




🕒 Last updated on Dec. 10, 2019, 4:42 p.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:


Take the following courses.

 <a href="#">BUS-137 Principles of Management</a>	<a href="#">3.00</a>
 <a href="#">MSM-110 Intro to Motorsports Mgmt</a>	<a href="#">3.00</a>
 <a href="#">MSM-112 Engine/Drivetrain Fundamentals</a>	<a href="#">2.00</a>
<a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 14**

### First Year Spring:

Take the following courses.

 <a href="#">MSM-216 Organization Mobility</a>	<a href="#">2.00</a>
<a href="#">BUS-121 Business Math</a>	<a href="#">3.00</a>
<a href="#">CTS-130 Spreadsheet</a>	<a href="#">3.00</a>

Take one of the following communication courses.

<a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>
<a href="#">ENG-114 Professional Research &amp; Reporting</a>	<a href="#">3.00</a>

Take one of the following math courses.

<a href="#">MAT-121 Algebra/Trigonometry I</a>	<a href="#">3.00</a>
<a href="#">MAT-143 Quantitative Literacy</a>	<a href="#">3.00</a>

**Credits: 14**

### First Year Summer:

Take the following courses.



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<u>BUS-110 Introduction to Business</u>	<u>3.00</u>
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Take one of the following humanities/fine arts courses.

<u>ART-111 Art Appreciation</u>	<u>3.00</u>
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<u>ART-114 Art History Survey I</u>	<u>3.00</u>
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<u>ART-115 Art History Survey II</u>	<u>3.00</u>
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<u>HUM-110 Technology and Society</u>	<u>3.00</u>
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<u>MUS-110 Music Appreciation</u>	<u>3.00</u>
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<u>PHI-240 Introduction to Ethics</u>	<u>3.00</u>
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**Credits: 6**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <u>MSM-210 Motorsports Marketing</u>	<u>3.00</u>
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<input checked="" type="checkbox"/> <u>MSM-212 Chassis Handling Fundamentals</u>	<u>3.00</u>
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<u>GRD-281 Design of Advertising</u>	<u>2.00</u>
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Take one of the following social/behavioral sciences courses.

<u>PSY-118 Interpersonal Psychology</u>	<u>3.00</u>
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<u>PSY-150 General Psychology</u>	<u>3.00</u>
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<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>
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<u>SOC-240 Social Psychology</u>	<u>3.00</u>
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Take 4 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program. Students wishing to pursue a BS degree in Manufacturing Systems, Motorsports, through North Carolina A&T State University are strongly recommended to take PHY 151 as a major elective.

**Credits: 15**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <u>MSM-214 Fabrication Fundamentals</u>	<u>2.00</u>
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<input checked="" type="checkbox"/> <u>MSM-218 Safety/Environment</u>	<u>2.00</u>
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<u>ACC-120 Principles of Financial Accounting</u>	<u>4.00</u>
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<u>BUS-253 Leadership and Management Skills</u>	<u>3.00</u>
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Take 5 semester hour credits from the MAJOR ELECTIVES course list located at the end of this program. Students wishing to pursue a BS degree in Manufacturing Systems, Motorsports, through North Carolina A&T State University are strongly recommended to take PHY 151 as a major elective.

**Credits: 16**

## MAJOR ELECTIVES Course List:

Select 9 semester hour credits from the following courses. Students wishing to pursue a BS degree in Manufacturing Systems, Motorsports, through North Carolina A&T State University are strongly recommended to take PHY 151 as a major elective.

<u>AUT-141 Suspension &amp; Steering Systems</u>	<u>3.00</u>
<u>AUT-141A Suspension &amp; Steering Lab</u>	<u>1.00</u>
<u>AUT-151 Brake Systems</u>	<u>3.00</u>
<u>AUT-151A Brakes Systems Lab</u>	<u>1.00</u>
<u>AUT-163 Advanced Automotive Electricity</u>	<u>3.00</u>
<u>AUT-163A Advanced Automotive Electricity Lab</u>	<u>1.00</u>
<u>AUT-181 Engine Performance 1</u>	<u>3.00</u>
<u>AUT-181A Engine Performance 1 Lab</u>	<u>1.00</u>
<u>AUT-183 Engine Performance 2</u>	<u>4.00</u>
<u>BPR-111 Print Reading</u>	<u>2.00</u>
<u>BPR-121 Blueprint Reading-Mechanical</u>	<u>2.00</u>
<u>BUS-115 Business Law I</u>	<u>3.00</u>
<u>BUS-153 Human Resource Management</u>	<u>3.00</u>
<u>BUS-217 Employment Law and Regulations</u>	<u>3.00</u>
<u>BUS-240 Business Ethics</u>	<u>3.00</u>
<u>BUS-260 Business Communication</u>	<u>3.00</u>
<u>CSC-120 Computing Fundamentals I</u>	<u>4.00</u>
<u>CSC-130 Computing Fundamentals II</u>	<u>4.00</u>
<u>CSC-284 Emerging Comp Prog Tech</u>	<u>3.00</u>
<u>CTS-287 Emerging Technologies</u>	<u>3.00</u>
<u>LDD-112 Intro Light-Duty Diesel</u>	<u>3.00</u>
<u>LDD-116 Diesel Electric-Drive</u>	<u>4.00</u>
<u>LDD-181 LDD Fuel Systems</u>	<u>4.00</u>
<u>LDD-183 Air, Exhaust, Emissions</u>	<u>4.00</u>
<u>LDD-284 LDD Test and Diagnosis</u>	<u>3.00</u>
<u>MAC-111 Machining Technology I</u>	<u>6.00</u>
<u>MAC-112 Machining Technology II</u>	<u>6.00</u>
<u>MAC-114 Introduction to Metrology</u>	<u>2.00</u>
<u>MAC-122 CNC Turning</u>	<u>2.00</u>
<u>MAC-124 CNC Milling</u>	<u>2.00</u>

<u>MAC-143 Machining Applications III</u>	<u>4.00</u>
<u>MAC-151 Machining Calculations</u>	<u>2.00</u>
<u>MAC-152 Advanced Machining Calculations</u>	<u>2.00</u>
<u>MAT-171 Precalculus Algebra</u>	<u>4.00</u>
<u>MEC-110 Introduction to CAD/CAM</u>	<u>2.00</u>
<u>MEC-142 Physical Metallurgy</u>	<u>2.00</u>
<u>MKT-120 Principles of Marketing</u>	<u>3.00</u>
<u>MKT-123 Fundamentals of Selling</u>	<u>3.00</u>
<u>MKT-220 Advertising and Sales Promotion</u>	<u>3.00</u>
<u>MKT-223 Customer Service</u>	<u>3.00</u>
<u>MKT-232 Social Media Marketing</u>	<u>4.00</u>
<u>MSM-220 Advanced Chassis Analysis</u>	<u>2.00</u>
<u>MSM-285 Motorsport Capstone Project</u>	<u>2.00</u>
<u>PHY-151 College Physics I</u>	<u>4.00</u>
<u>TRN-110 Introduction to Transport Technology</u>	<u>2.00</u>
<u>TRN-120 Basic Transportation Electricity</u>	<u>5.00</u>
<u>TRN-130 Intro to Sustainable Transportation</u>	<u>3.00</u>
<u>TRN-140 Transportation Climate Control</u>	<u>2.00</u>
<u>TRN-140A Transportation Climate Control Lab</u>	<u>2.00</u>
<u>TRN-170 Pc Skills for Transportation</u>	<u>2.00</u>
<u>WBL-110 World of Work</u>	<u>1.00</u>
<u>WBL-111 Work-Based Learning I</u>	<u>1.00</u>
<u>WBL-112 Work-Based Learning I</u>	<u>2.00</u>
<u>WBL-121 Work-Based Learning II</u>	<u>1.00</u>
<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
<u>WLD-115 SMAW (Stick) Plate</u>	<u>5.00</u>
<u>WLD-116 SMAW (stick) Plate/Pipe</u>	<u>4.00</u>
<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	<u>4.00</u>
<u>WLD-122 GMAW (MIG) Plate/Pipe</u>	<u>3.00</u>
<u>WLD-131 GTAW (TIG) Plate</u>	<u>4.00</u>
<u>WLD-132 GTAW (TIG) Plate/Pipe</u>	<u>3.00</u>
<u>WLD-141 Symbols and Specifications</u>	<u>3.00</u>
<u>WLD-151 Fabrication I</u>	<u>4.00</u>
<u>WLD-265 Automated Welding/Cutting</u>	<u>4.00</u>

# Total Credits To Complete

65

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Motorsports](#) / D60270MK

## Motorsports Marketing Diploma D60270MK

Motorsports (60270) CIP 52.0299



 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this diploma in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">MSM-110 Intro to Motorsports Mgmt</a>	<a href="#">3.00</a>
 <a href="#">MSM-210 Motorsports Marketing</a>	<a href="#">3.00</a>
<a href="#">MKT-123 Fundamentals of Selling</a>	<a href="#">3.00</a>
<a href="#">MKT-223 Customer Service</a>	<a href="#">3.00</a>

**Credits: 12**

### First Year Spring:

Take the following courses.

 <a href="#">MSM-216 Organization Mobility</a>	<a href="#">2.00</a>
 <a href="#">MSM-218 Safety/Environment</a>	<a href="#">2.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">GRD-281 Design of Advertising</a>	<a href="#">2.00</a>
<a href="#">MKT-120 Principles of Marketing</a>	<a href="#">3.00</a>

**Credits: 12**

### First Year Summer:

Take the following courses.

<a href="#">BUS-110 Introduction to Business</a>	<a href="#">3.00</a>
<a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>

**Credits: 6**

### Second Year Fall:

Take the following courses.

 <a href="#">BUS-137 Principles of Management</a>	<a href="#">3.00</a>
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MAT-143 Quantitative Literacy

3.00

MKT-232 Social Media Marketing

4.00

**Credits: 10**

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# Total Credits To Complete

**40**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Motorsports](#) / D60270MT

## Motorsports Management Diploma D60270MT

Motorsports (60270) CIP 52.0299



 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this diploma in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:



Take the following courses.

 <a href="#">MSM-110 Intro to Motorsports Mgmt</a>	<a href="#">3.00</a>
 <a href="#">MSM-210 Motorsports Marketing</a>	<a href="#">3.00</a>
<a href="#">BUS-217 Employment Law and Regulations</a>	<a href="#">3.00</a>
<a href="#">BUS-240 Business Ethics</a>	<a href="#">3.00</a>

**Credits: 12**

### First Year Spring:

Take the following courses.

 <a href="#">MSM-216 Organization Mobility</a>	<a href="#">2.00</a>
 <a href="#">MSM-218 Safety/Environment</a>	<a href="#">2.00</a>
<a href="#">BUS-115 Business Law I</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 10**

### First Year Summer:


Take the following courses.

<a href="#">BUS-110 Introduction to Business</a>	<a href="#">3.00</a>
<a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>

**Credits: 6**

### Second Year Fall:

Take the following courses.

 <a href="#">BUS-137 Principles of Management</a>	<a href="#">3.00</a>
<a href="#">BUS-253 Leadership and Management Skills</a>	<a href="#">3.00</a>

Credits: 9

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# Total Credits To Complete

37



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Motorsports](#) / C60270

## Motorsports Certificate C60270

Motorsports (60270) CIP 52.0299

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>MSM-110 Intro to Motorsports Mgmt</u>	<u>3.00</u>
<u>MSM-112 Engine/Drivetrain Fundamentals</u>	<u>2.00</u>
<u>MSM-212 Chassis Handling Fundamentals</u>	<u>3.00</u>

**Credits: 8**

### First Year Spring:

Take the following courses.

<u>MSM-214 Fabrication Fundamentals</u>	<u>2.00</u>
<u>MSM-218 Safety/Environment</u>	<u>2.00</u>

**Credits: 4**

# Total Credits To Complete

**12**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Motorsports](#) / C60270PB

## CCPP Motorsports Basic Certificate C60270PB

Motorsports (60270) CIP 52.0299

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The 🎯 symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">MSM-110 Intro to Motorsports Mgmt</a>	<a href="#">3.00</a>
<a href="#">MSM-112 Engine/Drivetrain Fundamentals</a>	<a href="#">2.00</a>
<a href="#">MSM-210 Motorsports Marketing</a>	<a href="#">3.00</a>
<a href="#">MSM-212 Chassis Handling Fundamentals</a>	<a href="#">3.00</a>
<a href="#">MSM-214 Fabrication Fundamentals</a>	<a href="#">2.00</a>
<a href="#">MSM-216 Organization Mobility</a>	<a href="#">2.00</a>
<a href="#">MSM-218 Safety/Environment</a>	<a href="#">2.00</a>

**Credits: 17**

# Total Credits To Complete

**17**

# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Motorsports](#) / C60270PA

## CCPP Motorsports Advanced Certificate C60270PA

Motorsports (60270) CIP 52.0299

 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">MSM-110 Intro to Motorsports Mgmt</a>	<u>3.00</u>
<a href="#">MSM-112 Engine/Drivetrain Fundamentals</a>	<u>2.00</u>
<a href="#">MSM-212 Chassis Handling Fundamentals</a>	<u>3.00</u>
<a href="#">MSM-214 Fabrication Fundamentals</a>	<u>2.00</u>
<a href="#">MSM-216 Organization Mobility</a>	<u>2.00</u>
<a href="#">MSM-218 Safety/Environment</a>	<u>2.00</u>
<a href="#">MSM-220 Advanced Chassis Analysis</a>	<u>2.00</u>

**Credits: 16**

## Total Credits To Complete

**16**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Nurse Aide

## Nurse Aide

(C45840) CIP 51.3902 Currently available only for Career and College Promise

🕒 Last updated on Sept. 24, 2019, 2:53 p.m.

The Nurse Aide curriculum prepares individuals to work under the supervision of licensed nursing professionals in performing nursing care and services for persons of all ages.

Topics include growth and development, personal care, vital signs, communication, nutrition, medical asepsis, therapeutic activities, accident and fire safety, household environment and equipment management, family resources and services, and employment skills.

Upon completion, the student may be eligible for listing as a Nurse Aide I and other selected Nurse Aide registries as determined by the local program of study.

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## Curriculum Offerings:

SHC - Semester Hour Credits

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[CCPP Nurse Aide Certificate C45840PB](#)

[17 SHC total](#)

»

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## Additional Information:

Currently the C45840 Nurse Aide Certificate is available only for Career and College Promise students. Please see the [Continuing Education Nurse Aide I](#) program, open to any qualified student.

---

## Notes:

For additional information regarding this program, contact the chair, Emily Fink, [emily.fink@rccc.edu](mailto:emily.fink@rccc.edu).

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Nurse Aide](#) / C45840PB

## CCPP Nurse Aide Certificate C45840PB

Nurse Aide (C45840) CIP 51.3902 Currently available only for Career and College Promise

🕒 Last updated on Sept. 24, 2019, 2:54 p.m.

## Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

### Take the following courses:

<u>MED-130 Admin Office Proc I</u>	<u>2.00</u>
<u>NAS-101 Nurse Aide I</u>	<u>6.00</u>
<u>NAS-102 Nurse Aide II</u>	<u>6.00</u>
<u>PSY-150 General Psychology</u>	<u>3.00</u>

**Credits: 17**

# Total Credits To Complete

**17**

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Occupational Therapy Assistant

## Occupational Therapy Assistant (45500) CIP 51.0803

🕒 Last updated on Feb. 10, 2020, 7:59 a.m.

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 of this program will be eligible to sit for the National Certification Examination for the Occupational Therapy Assistant, administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the graduate will be a Certified Occupational Therapy Assistant (COTA). In addition, all states require licensure to practice; however, state licenses are usually based on the results of the NBCOT certification examination. A felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.** Employment opportunities include hospitals, rehabilitation facilities, longterm/extended care facilities, sheltered workshops, schools, home health programs, and community programs.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Occupational Therapy Assistant A45500](#)

74 SHC total

»

[CCPP Therapeutic & Diagnostic Services/Nurse Aide-OTA Diploma D45970PC CIP 51.3902](#)

40 SHC total

»

### Additional Information:

1. The Rowan-Cabarrus Community College Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 6116 Executive Boulevard, Suite 200, North Bethesda, MD 20852-4929. ACOTE's telephone number, c/o AOTA, is (301) 652-AOTA, and its web address is [www.acoteonline.org](http://www.acoteonline.org).

2. Students must maintain a "B" (80%) final average for all OTA courses, and a "C" (70) for all non-OTA prefix courses in the program of study to remain in the OTA program.

[Admissions Process Information](#)

[Information Sessions](#)

[A45500 AAS Academic Plan](#)

### Notes:

For additional information regarding this program, contact the chair, Amy Mahle, [amy.mahle@rccc.edu](mailto:amy.mahle@rccc.edu).

### Faculty Mentors:

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*Academic Fieldwork Coordinator*

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📍 North

Amy Mahle

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📍 North

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Occupational Therapy Assistant](#) / A45500

## Occupational Therapy Assistant A45500

### Occupational Therapy Assistant (45500) CIP 51.0803





🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:


Take the following courses.

 <a href="#">BIO-168 Anatomy and Physiology I</a>	<u>4.00</u>
 <a href="#">OTA-110 Fundamentals of OT</a>	<u>3.00</u>
 <a href="#">OTA-120 OT Media I</a>	<u>2.00</u>
 <a href="#">OTA-140 Professional Skills I</a>	<u>1.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">MED-120 Survey of Medical Terminology</a>	<u>2.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>

**Credits: 18**

### First Year Spring:



Take the following courses.

 <a href="#">OTA-130 Assessment Skills</a>	<u>3.00</u>
 <a href="#">OTA-161 Fieldwork I-Placement 1</a>	<u>1.00</u>
 <a href="#">OTA-170 Physical Conditions</a>	<u>3.00</u>
 <a href="#">PSY-281 Abnormal Psychology</a>	<u>3.00</u>
<a href="#">BIO-169 Anatomy and Physiology II</a>	<u>4.00</u>
<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
<a href="#">OTA-135 Kinesiology</a>	<u>1.00</u>

**Credits: 18**

### First Year Summer:

Take the following courses.

 <a href="#">OTA-150 Pediatric Concepts and Interventions</a>	<u>3.00</u>
 <a href="#">OTA-162 Fieldwork I-Placement 2</a>	<u>1.00</u>



✔ <a href="#">OTA-240 Professional Skills II</a>	<u>1.00</u>
✔ <a href="#">PSY-241 Developmental Psychology</a>	<u>3.00</u>

Take one of the following communication courses.

<a href="#">COM-110 Introduction to Communication</a>	<u>3.00</u>
<a href="#">COM-120 Intro to Interpersonal Communication</a>	<u>3.00</u>
<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>

**Credits: 11**

## Second Year Fall:

Take the following courses.

✔ <a href="#">OTA-163 Fieldwork I-Placement 3</a>	<u>1.00</u>
✔ <a href="#">OTA-180 Psychosocial Conditions</a>	<u>3.00</u>
✔ <a href="#">OTA-220 OT Media II</a>	<u>3.00</u>
✔ <a href="#">OTA-250 Adult Concepts &amp; Interventions</a>	<u>3.00</u>
<a href="#">HUM-115 Critical Thinking</a>	<u>3.00</u>
<a href="#">OTA-245 Professional Skills III</a>	<u>1.00</u>

**Credits: 14**

## Second Year Spring:

Take the following courses.

✔ <a href="#">OTA-260 Level II Fieldwork Placement 1</a>	<u>6.00</u>
✔ <a href="#">OTA-261 Level II Fieldwork Placement 2</a>	<u>6.00</u>
<a href="#">OTA-280 Professional Transitions</a>	<u>1.00</u>

**Credits: 13**

## Additional Information:

Students must maintain a "B" (80%) final average for all OTA courses, and a "C" (70) for all non-OTA prefix courses in the program of study to remain in the OTA program.

# Total Credits To Complete

**74**

# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Occupational Therapy Assistant](#) / D45970PC

## CCPP Therapeutic & Diagnostic Services/Nurse Aide-OTA Diploma D45970PC CIP 51.3902

Occupational Therapy Assistant (45500) CIP 51.0803

 Last updated on Feb. 26, 2020, 5:24 p.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">ACA-118 College Study Skills</a>	<u>2.00</u>
<a href="#">BIO-168 Anatomy and Physiology I</a>	<u>4.00</u>
<a href="#">BIO-169 Anatomy and Physiology II</a>	<u>4.00</u>
<a href="#">COM-110 Introduction to Communication</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">HSC-120 CPR</a>	<u>1.00</u>
<a href="#">HUM-115 Critical Thinking</a>	<u>3.00</u>
<a href="#">MED-120 Survey of Medical Terminology</a>	<u>2.00</u>
<a href="#">NAS-101 Nurse Aide I</a>	<u>6.00</u>
<a href="#">NAS-102 Nurse Aide II</a>	<u>6.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>
<a href="#">PSY-241 Developmental Psychology</a>	<u>3.00</u>

## Total Credits To Complete

40

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Physical Therapist Assistant (2-year program)

## Physical Therapist Assistant (2-year program)

(45620) CIP 51.0806

🕒 Last updated on Sept. 30, 2019, 4:22 p.m.

The Physical Therapist Assistant curriculum prepares graduates to work in direct patient care settings under the supervision of physical therapists. Assistants work to improve or restore function by alleviation or prevention of physical impairment and perform other essential activities in a physical therapy department.

Course work includes normal human anatomy and physiology, the consequences of disease or injury, and physical therapy treatment of a variety of patient conditions affecting humans throughout the life span.

Graduates may be eligible to take the licensure examination administered by the NC Board of Physical Therapy Examiners. Employment is available in general hospitals, rehabilitation centers, extended care facilities, specialty hospitals, home health agencies, private clinics, and public school systems.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Physical Therapist Assistant \(2-year program\) A45620](#) >>

[74 SHC total](#)

[CCPP Therapeutic & Diagnostic Services/Nurse Aide-PTA Diploma D45970PP CIP 51.3902](#) >>

[40 SHC total](#)

### Additional Information:

Students must maintain a 'B' (80%) final average for all PTA courses, and a 'C' (70%) for all non-PTA prefix courses in the program of study to remain in the PTA program.

This program is approved by SACSCOC to begin Spring 2019.

[Program Information for PTA](#)

[About the PTA program](#)

**ACCREDITATION:** Effective November 14, 2018, Rowan-Cabarrus Community College has been granted Candidate for Accreditation status by the Commission on Accreditation in Physical Therapy Education (1111 North Fairfax Street, Alexandria, VA, 22314; phone: 703-706-3245; email: accreditation@apta.org). If needing to contact the program/institution directly, please call Anna Marie Prado, PTA, M.Ed., Program Director at (704) 216-7180 or email at annamarie.prado@rccc.edu. Candidate for Accreditation is a pre-accreditation status of affiliation with the Commission on Accreditation in Physical Therapy Education that indicates that the program is progressing toward accreditation and may matriculate students in technical/professional courses. Candidate for Accreditation is not an accreditation status nor does it assure eventual accreditation.

[A45620 AAS Academic Plan](#)

### Notes:

For additional information regarding this program, contact the chair, Anna Marie Prado, [annamarie.prado@rccc.edu](mailto:annamarie.prado@rccc.edu).

### Faculty Mentors:

Anna Marie Prado

Chair

Karey Martin

Faculty and Academic Coordinator

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📍 North

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📍 North

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Physical Therapist Assistant \(2-year program\)](#) / A45620

## Physical Therapist Assistant (2-year program) A45620

Physical Therapist Assistant (2-year program) (45620) CIP 51.0806

 Last updated on June 28, 2019, 10:59 a.m.




### Approved by SACSCOC to begin Spring 2019

The following is a suggested degree map for completing this degree in five semesters. Some students' degree maps may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Spring:






Take the following courses.

 <a href="#">BIO-168 Anatomy and Physiology I</a>	<a href="#">4.00</a>
 <a href="#">PTA-110 Intro to Physical Therapy</a>	<a href="#">3.00</a>
 <a href="#">PTA-130 Physical Therapy Proc I</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">HUM-115 Critical Thinking</a>	<a href="#">3.00</a>
<a href="#">MED-120 Survey of Medical Terminology</a>	<a href="#">2.00</a>

**Credits: 18**

### First Year Fall:




Take the following courses.

 <a href="#">BIO-169 Anatomy and Physiology II</a>	<a href="#">4.00</a>
 <a href="#">PTA-120 Functional Anatomy</a>	<a href="#">3.00</a>
 <a href="#">PTA-140 Therapeutic Exercise</a>	<a href="#">4.00</a>
 <a href="#">PTA-150 Physical Therapy Proc II</a>	<a href="#">3.00</a>
 <a href="#">PTA-222 Professional Interactions</a>	<a href="#">2.00</a>

**Credits: 16**

### Second Year Spring:

Take the following courses.

 <a href="#">PTA-160 Physical Therapy Proc III</a>	<a href="#">3.00</a>
 <a href="#">PTA-170 Pathophysiology</a>	<a href="#">3.00</a>
 <a href="#">PTA-212 Health Care/Resources</a>	<a href="#">2.00</a>
 <a href="#">PTA-240 Physical Therapy Proc IV</a>	<a href="#">5.00</a>

**Credits: 16**

## Second Year Summer:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">PTA-180 PTA Clinical Ed Intro</a>	<a href="#">3.00</a>
<a href="#">PTA-252 Geriatrics for the PTA</a>	<a href="#">2.00</a>
<a href="#">PTA-254 Pediatrics for the PTA</a>	<a href="#">1.00</a>

**Note:**

PTA 180 will be taught the first 4 weeks. PTA 252 and PTA 254 will be taught the 2nd 4 weeks.

Take one of the following communication courses.

<a href="#">COM-120 Intro to Interpersonal Communication</a>	<a href="#">3.00</a>
<a href="#">COM-231 Public Speaking</a>	<a href="#">3.00</a>

**Credits: 9**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">PTA-260 Adv. PTA Clinical Ed.</a>	<a href="#">10.00</a>
<a href="#">PSY-150 General Psychology.</a>	<a href="#">3.00</a>
<a href="#">PTA-270 PTA Topics</a>	<a href="#">1.00</a>
<a href="#">PTA-280 PTA Issues I</a>	<a href="#">1.00</a>

**Credits: 15**

## Additional Information:

Students must maintain a 'B' (80%) final average for all PTA courses, and a 'C' (70%) for all non-PTA prefix courses in the program of study to remain in the PTA program.

# Total Credits To Complete

**74**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Physical Therapist Assistant \(2-year program\)](#) / D459790PP

## CCPP Therapeutic & Diagnostic Services/Nurse Aide-PTA Diploma D45970PP CIP 51.3902

Physical Therapist Assistant (2-year program) (45620) CIP 51.0806

🕒 Last updated on Feb. 26, 2020, 5:45 p.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">ACA-118 College Study Skills</a>	<u>2.00</u>
<a href="#">BIO-168 Anatomy and Physiology I</a>	<u>4.00</u>
<a href="#">BIO-169 Anatomy and Physiology II</a>	<u>4.00</u>
<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">HSC-120 CPR</a>	<u>1.00</u>
<a href="#">HUM-115 Critical Thinking</a>	<u>3.00</u>
<a href="#">MAT-143 Quantitative Literacy</a>	<u>3.00</u>
<a href="#">MED-120 Survey of Medical Terminology</a>	<u>2.00</u>
<a href="#">NAS-101 Nurse Aide I</a>	<u>6.00</u>
<a href="#">NAS-102 Nurse Aide II</a>	<u>6.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>

## Total Credits To Complete

40

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Practical Nursing

## Practical Nursing (45660) CIP 51.3901

🕒 Last updated on Oct. 18, 2019, 11:02 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Practical Nursing Diploma D45660](#) >>

[41 SHC total](#)

[CCPP Therapeutic & Diagnostic Services/Nurse Aide-Nursing Diploma D45970PU CIP 51.3902](#) >>

[40 SHC total](#)

### Additional Information:

[Comprehensive List of Nursing Education Admission and Program Information](#)

[D45660 Diploma Academic Plan](#)

### Notes:

For additional information regarding this program, contact the chair, Emily Fink, [emily.fink@rccc.edu](mailto:emily.fink@rccc.edu).

### Faculty Mentors:

Emily Fink

Director

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Carol Beaver

Faculty

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☎ N/A

☰ NCRC

☰ NCRC

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☰ NCRC

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Practical Nursing](#) / D45660

## Practical Nursing Diploma D45660

Practical Nursing (45660) CIP 51.3901


 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this diploma in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### Fall Semester:

Take the following courses

 <a href="#">NUR-101 Practical Nursing I</a>	<a href="#">11.00</a>
<a href="#">BIO-163 Basic Anatomy &amp; Physiology</a>	<a href="#">5.00</a>
<a href="#">PSY-110 Life Span Development</a>	<a href="#">3.00</a>

**Credits: 19**

### Spring Semester:

Take the following courses.

 <a href="#">NUR-102 Practical Nursing II</a>	<a href="#">10.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 13**

### Summer Term:

Take the following course.

 <a href="#">NUR-103 Practical Nursing III</a>	<a href="#">9.00</a>
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### Additional Information:

**Note 1:** Class sessions and clinical rotations in NUR courses may be scheduled during weekdays, evenings, or weekends.

**Note 2:** For students enrolled in the Associate Degree Nursing or the Practical Nursing programs, numerical grades below 'B' in all required nursing courses are considered unsatisfactory attainment of course competencies.

**Note 3:** Students considering entering the Associate Degree Nursing (ADN) Program should take the following: Complete the sequence of BIO 168 and BIO 169 instead of BIO-163; and complete the sequence of PSY 150 and PSY 241 instead of PSY 110. The sequence of these courses is required to be completed no later than the fall semester of program entry. Students should request a substitution form prior to registering.

# Total Credits To Complete

41

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# Awards


2020-2021

Award details listed below.

[All Programs](#) / [Practical Nursing](#) / D45970PUPN

## CCPP Therapeutic & Diagnostic Services/Nurse Aide-Nursing Diploma D45970PU CIP 51.3902

Practical Nursing (45660) CIP 51.3901

 Last updated on Feb. 26, 2020, 5:46 p.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">ACA-118 College Study Skills</a>	<u>2.00</u>
<a href="#">BIO-168 Anatomy and Physiology I</a>	<u>4.00</u>
<a href="#">BIO-169 Anatomy and Physiology II</a>	<u>4.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">ENG-112 Writing and Research in the Disciplines</a>	<u>3.00</u>
<a href="#">HSC-120 CPR</a>	<u>1.00</u>
<a href="#">HUM-115 Critical Thinking</a>	<u>3.00</u>
<a href="#">MED-120 Survey of Medical Terminology</a>	<u>2.00</u>
<a href="#">NAS-101 Nurse Aide I</a>	<u>6.00</u>
<a href="#">NAS-102 Nurse Aide II</a>	<u>6.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>
<a href="#">PSY-241 Developmental Psychology</a>	<u>3.00</u>

## Total Credits To Complete

40

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Radiography

## Radiography

(45700) CIP 51.0911

🕒 Last updated on Feb. 5, 2020, 9 a.m.

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.

### Curriculum Offerings:

SHC - Semester Hour Credits

[Radiography Associate in Applied Science A45700](#) >>

73 SHC total

[CCPP Therapeutic & Diagnostic Services/Nurse Aide-Radiography Diploma D45970PR CIP 51.3902](#) >>

42 SHC total

### Additional Information:

[Comprehensive List of Radiography Program Information](#)

[A45700 AAS Academic Plan](#)

#### Minimum Grades Required:

RAD courses and BIO 168 and BIO 169 require a minimum grade of "B" to complete the AAS.

All general education courses require a minimum grade of "C" to complete the AAS.

### Notes:

For additional information regarding this program, contact the chair, Kelly McCowan, [kelly.mccowan@rccc.edu](mailto:kelly.mccowan@rccc.edu).

### Faculty Mentors:

Kelly McCowan

*Chair*

✉ [kelly.mccowan@rccc.edu](mailto:kelly.mccowan@rccc.edu)

📞 [704-216-7185](tel:704-216-7185)

📍 North

Melissa Bell

*Clinical Coordinator*

✉ [melissa.bell@rccc.edu](mailto:melissa.bell@rccc.edu)

📞 [704-216-3724](tel:704-216-3724)

📍 North

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Radiography](#) / A45700

## Radiography Associate in Applied Science A45700

Radiography (45700) CIP 51.0911



 Last updated on Feb. 6, 2020, 5:12 p.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">RAD-110 Rad Intro &amp; Patient Care</a>	<a href="#">3.00</a>
 <a href="#">RAD-111 RAD Procedures I</a>	<a href="#">4.00</a>
 <a href="#">RAD-151 RAD Clinical Ed I</a>	<a href="#">2.00</a>
<a href="#">BIO-168 Anatomy and Physiology I</a>	<a href="#">4.00</a>




Take one of the following math courses.

<a href="#">MAT-143 Quantitative Literacy</a>	<a href="#">3.00</a>
<a href="#">MAT-171 Precalculus Algebra</a>	<a href="#">4.00</a>

**Credits: 16**

### First Year Spring:




Take the following courses.

 <a href="#">RAD-112 RAD Procedures II</a>	<a href="#">4.00</a>
 <a href="#">RAD-121 Image Production I</a>	<a href="#">3.00</a>
 <a href="#">RAD-161 RAD Clinical Ed II</a>	<a href="#">5.00</a>
<a href="#">BIO-169 Anatomy and Physiology II</a>	<a href="#">4.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>

**Credits: 19**

### First Year Summer:

Take the following courses.

 <a href="#">RAD-122 Image Production II</a>	<a href="#">2.00</a>
 <a href="#">RAD-141 Radiation Safety</a>	<a href="#">2.00</a>
 <a href="#">RAD-171 RAD Clinical Ed III</a>	<a href="#">3.00</a>

**Credits: 7**

## Second Year Fall:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">RAD-211 RAD Procedures III</a>	<u>3.00</u>
<input checked="" type="checkbox"/> <a href="#">RAD-231 Image Production III</a>	<u>2.00</u>
<input checked="" type="checkbox"/> <a href="#">RAD-251 RAD Clinical Ed IV</a>	<u>7.00</u>
<a href="#">PSY-150 General Psychology</a>	<u>3.00</u>

**Credits: 15**

## Second Year Spring:

Take the following courses.

<input checked="" type="checkbox"/> <a href="#">RAD-261 RAD Clinical Education V</a>	<u>7.00</u>
<input checked="" type="checkbox"/> <a href="#">RAD-271 Radiography Capstone</a>	<u>3.00</u>
<a href="#">COM-231 Public Speaking</a>	<u>3.00</u>

Take three semester hour credits from the following list of humanities/fine arts courses.

<a href="#">ART-111 Art Appreciation</a>	<u>3.00</u>
<a href="#">ART-114 Art History Survey I</a>	<u>3.00</u>
<a href="#">ART-115 Art History Survey II</a>	<u>3.00</u>
<a href="#">ART-121 Two-Dimensional Design</a>	<u>3.00</u>
<a href="#">ART-131 Drawing I</a>	<u>3.00</u>
<a href="#">ART-132 Drawing II</a>	<u>3.00</u>
<a href="#">ART-240 Painting I</a>	<u>3.00</u>
<a href="#">ART-241 Painting II</a>	<u>3.00</u>
<a href="#">ART-244 Watercolor</a>	<u>3.00</u>
<a href="#">ART-261 Photography I</a>	<u>3.00</u>
<a href="#">ART-262 Photography II</a>	<u>3.00</u>
<a href="#">ART-266 Videography I</a>	<u>3.00</u>
<a href="#">ART-281 Sculpture I</a>	<u>3.00</u>
<a href="#">ART-283 Ceramics I</a>	<u>3.00</u>
<a href="#">ART-288 Studio</a>	<u>3.00</u>
<a href="#">DRA-111 Theatre Appreciation</a>	<u>3.00</u>
<a href="#">DRA-126 Storytelling</a>	<u>3.00</u>
<a href="#">ENG-125 Creative Writing I</a>	<u>3.00</u>
<a href="#">HUM-110 Technology and Society</a>	<u>3.00</u>
<a href="#">HUM-115 Critical Thinking</a>	<u>3.00</u>

<a href="#">HUM-120 Cultural Studies</a>	<a href="#">3.00</a>
<a href="#">HUM-122 Southern Culture</a>	<a href="#">3.00</a>
<a href="#">HUM-130 Myth in Human Culture</a>	<a href="#">3.00</a>
<a href="#">HUM-170 The Holocaust</a>	<a href="#">3.00</a>
<a href="#">MUS-110 Music Appreciation</a>	<a href="#">3.00</a>
<a href="#">MUS-112 Introduction to Jazz</a>	<a href="#">3.00</a>
<a href="#">MUS-210 History of Rock Music</a>	<a href="#">3.00</a>
<a href="#">PHI-230 Introduction to Logic</a>	<a href="#">3.00</a>
<a href="#">PHI-240 Introduction to Ethics</a>	<a href="#">3.00</a>
<a href="#">REL-110 World Religions</a>	<a href="#">3.00</a>
<a href="#">REL-211 Introduction to Old Testament</a>	<a href="#">3.00</a>
<a href="#">REL-212 Introduction to New Testament</a>	<a href="#">3.00</a>

**Credits: 16**

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## Additional Information:

### Minimum Grades Required:

RAD courses and BIO 168 and BIO 169 require a minimum grade of "B" to complete the AAS.

All general education courses require a minimum grade of "C" to complete the AAS.

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# Total Credits To Complete

**73**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Radiography](#) / D45970PR

## CCPP Therapeutic & Diagnostic Services/Nurse Aide-Radiography Diploma D45970PR CIP 51.3902

Radiography (45700) CIP 51.0911

 Last updated on Feb. 26, 2020, 5:45 p.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">BIO-168 Anatomy and Physiology I</a>	4.00
<a href="#">BIO-169 Anatomy and Physiology II</a>	4.00
<a href="#">COM-231 Public Speaking</a>	3.00
<a href="#">ENG-111 Writing and Inquiry</a>	3.00
<a href="#">HSC-120 CPR</a>	1.00
<a href="#">HUM-115 Critical Thinking</a>	3.00
<a href="#">MAT-143 Quantitative Literacy</a>	3.00
<a href="#">MED-120 Survey of Medical Terminology</a>	2.00
<a href="#">NAS-101 Nurse Aide I</a>	6.00
<a href="#">NAS-102 Nurse Aide II</a>	6.00
<a href="#">PHY-110 Conceptual Physics</a>	3.00
<a href="#">PHY-110A Conceptual Physics Lab</a>	1.00
<a href="#">PSY-150 General Psychology</a>	3.00

## Total Credits To Complete

42

# Programs

2020-2021

Program details listed below.

[All Programs](#) / Welding Technology

## Welding Technology (50420) CIP 48.0508

🕒 Last updated on Oct. 31, 2019, 1:22 p.m.

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 students 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.

### Curriculum Offerings:

SHC - Semester Hour Credits

<a href="#">Welding Technology Associate in Applied Science Degree A50420</a> 74 SHC total	»
<a href="#">Welding Technology Diploma D50420</a> 45-46 SHC total	»
<a href="#">CCPP Welding Technology Diploma D50420PB</a> 41 SHC total	»
<a href="#">Welding Technology Certificate C50420</a> 18 SHC total	»
<a href="#">CCPP Welding Technology Basic Certificate C50420PB</a> 18 SHC total	»
<a href="#">Welding Technology Basic Certificate C50420BC</a> 17 SHC total	»
<a href="#">CCPP Welding Technology Stick Certificate C50420PS</a> 14 SHC total	»
<a href="#">Welding Technology Stick Certificate C50420ST</a> 14 SHC total	»
<a href="#">Welding Technology High Performance Fabrication Certificate C50420HP</a> 13 SHC total	»
<a href="#">Welding Technology MIG Certificate C50420MI</a> 13 SHC total	»
<a href="#">Welding Technology Orbital GTAW Pipe Certificate C50420RB</a> 13 SHC total	»
<a href="#">Welding Technology TIG Certificate C50420TI</a> 12 SHC total	»

### Additional Information:

At the end of each semester, students will take a qualification test (certification test). They will need to complete the Certification form that will be made available in the welding area by their instructors and submit the completed Certification form to their instructors. Students will be given the certification test during the last 2 weeks of the semester for a 16 week course and the last week of an 8 week course.

There are personal tools students will have to supply. Contact any of the welding instructors for a complete list of tools needed while completing the A.A.S. degree.

**ACADEMIC PLANS:**

[A50420 AAS](#), [D50420 Diploma](#), [C50420 Certificate](#), [C50420BC Basic Certificate](#), [C50420ST Stick Certificate](#), [C50420HP High Performance Fabrication Certificate](#), [C50420RB Orbital GTAW Pipe Certificate](#), [C50420MI MIG Certificate](#), [C50420TI TIG Certificate](#)

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**Notes:**

For additional information regarding this program, contact the chair, Brandon Hoffner, [brandon.hoffner@rccc.edu](mailto:brandon.hoffner@rccc.edu).

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**Faculty Mentors:**

<p>Brandon Hoffner <i>Chair</i></p> <hr/> <p>✉ <a href="mailto:brandon.hoffner@rccc.edu">brandon.hoffner@rccc.edu</a></p> <p>☎ <a href="tel:704-216-3922">704-216-3922</a></p> <p>📍 North</p>	<p>David Kanipe <i>Faculty</i></p> <hr/> <p>✉ <a href="mailto:david.kanipe@rccc.edu">david.kanipe@rccc.edu</a></p> <p>☎ <a href="tel:704-216-3786">704-216-3786</a></p> <p>📍 North</p>
<p>Lori Safrit <i>Faculty</i></p> <hr/> <p>✉ <a href="mailto:lori.safrit@rccc.edu">lori.safrit@rccc.edu</a></p> <p>☎ <a href="tel:704-216-7186">704-216-7186</a></p> <p>📍 North</p>	<p>Mike Huffman <i>Faculty</i></p> <hr/> <p>✉ <a href="mailto:mike.huffman@rccc.edu">mike.huffman@rccc.edu</a></p> <p>☎ <a href="tel:704-216-7156">704-216-7156</a></p> <p>📍 North</p>
<p>Steven Seeley <i>Faculty</i></p> <hr/> <p>✉ <a href="mailto:steven.seeley@rccc.edu">steven.seeley@rccc.edu</a></p> <p>☎ <a href="tel:704-216-3901">704-216-3901</a></p> <p>📍 North</p>	

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / A50420

## Welding Technology Associate in Applied Science Degree A50420

Welding Technology (50420) CIP 48.0508

🕒 Last updated on June 16, 2020, 3:17 p.m.

The following is a suggested program of study for completing this degree in five semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">WLD-110 Cutting Processes</a>	<a href="#">2.00</a>
<a href="#">WLD-115 SMAW (Stick) Plate</a>	<a href="#">5.00</a>
<a href="#">WLD-121 GMAW (MIG) FCAW/Plate</a>	<a href="#">4.00</a>
<a href="#">WLD-131 GTAW (TIG) Plate</a>	<a href="#">4.00</a>
<a href="#">MAT-121 Algebra/Trigonometry I</a>	<a href="#">3.00</a>

**Credits: 18**

### First Year Spring:

Take the following courses.

<a href="#">WLD-141 Symbols and Specifications</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">WLD-116 SMAW (stick) Plate/Pipe</a>	<a href="#">4.00</a>
<a href="#">WLD-123 FCAW Plate</a>	<a href="#">4.00</a>
<a href="#">WLD-132 GTAW (TIG) Plate/Pipe</a>	<a href="#">3.00</a>

**Credits: 17****Note:**

WLD 123 replaced WLD 122 and the online catalog was updated on 6/16/2020.

For 2020-2021, WLD-122 GMAT (MIG) Plate/Pipe (3 credit hours) will be replaced by WLD-123 FCAW (Flux Cored Arc Welding) Plate (4 credit hours) if approved by NCCCS. The First Year Spring total credit hours will then be 17. The program total credit hours will then be 74. Updates will be made when NCCCS makes a decision.

### First Year Summer:

Take the following courses.

<u>CIS-110 Introduction to Computers</u>	<u>3.00</u>
<u>WLD-270 Orbital Welding TIG/Pipe</u>	<u>4.00</u>

Take one of the following courses.

<u>WBL-113 Work-Based Learning I</u>	<u>3.00</u>
<u>WLD-151 Fabrication I</u>	<u>4.00</u>

**Credits: 10-11**

Note:

**Earn Welding Diploma:** The Welding Diploma (D50420) is earned upon successful completion of the First Year Fall, Spring, and Summer courses.

## Second Year Fall:

Take the following courses.

<u>DFT-151 CAD I</u>	<u>3.00</u>
<u>WLD-143 Welding Metallurgy</u>	<u>2.00</u>
<u>WLD-231 GTAW (TIG) Pipe</u>	<u>3.00</u>
<u>WLD-261 Certification Practices</u>	<u>2.00</u>

Take one of the following communication courses.

<u>COM-110 Introduction to Communication</u>	<u>3.00</u>
<u>COM-120 Intro to Interpersonal Communication</u>	<u>3.00</u>
<u>COM-231 Public Speaking</u>	<u>3.00</u>
<u>ENG-114 Professional Research &amp; Reporting</u>	<u>3.00</u>

Take 2 SHC from the following list of Major Electives. MEC 111 is offered in the Fall. DFT 154 is offered in the Spring. PHY 110/110A is offered in the Fall and in the Spring.

<u>DFT-154 Intro to Solid Modeling</u>	<u>3.00</u>
<u>MEC-111 Machine Processes I</u>	<u>3.00</u>
<u>PHY-110 Conceptual Physics</u>	<u>3.00</u>
<u>PHY-110A Conceptual Physics Lab</u>	<u>1.00</u>

**Credits: 15**

## Second Year Spring:

Take the following courses.

<u>WLD-215 SMAW (stick) Pipe</u>	<u>4.00</u>
<u>WLD-265 Automated Welding/Cutting</u>	<u>4.00</u>

Take one of the following humanities courses.

<u>HUM-110 Technology and Society.</u>	<u>3.00</u>
<u>HUM-115 Critical Thinking</u>	<u>3.00</u>

Take one of the following standardized social/behavioral sciences courses.

<u>ANT-210 General Anthropology.</u>	<u>3.00</u>
<u>ANT-220 Cultural Anthropology.</u>	<u>3.00</u>
<u>ANT-230 Physical Anthropology.</u>	<u>3.00</u>
<u>ANT-230A Physical Anthropology Lab</u>	<u>1.00</u>
<u>ANT-240 Archaeology.</u>	<u>3.00</u>
<u>ANT-240A Archaeology Field Lab</u>	<u>2.00</u>
<u>ECO-151 Survey of Economics</u>	<u>3.00</u>
<u>ECO-251 Principles of Microeconomics</u>	<u>3.00</u>
<u>ECO-252 Principles of Macroeconomics</u>	<u>3.00</u>
<u>GEO-111 World Regional Geography.</u>	<u>3.00</u>
<u>GEO-112 Cultural Geography.</u>	<u>3.00</u>
<u>GEO-130 General Physical Geography.</u>	<u>3.00</u>
<u>HIS-111 World Civilizations I</u>	<u>3.00</u>
<u>HIS-112 World Civilizations II</u>	<u>3.00</u>
<u>HIS-122 Western Civilization II</u>	<u>3.00</u>
<u>HIS-131 American History I</u>	<u>3.00</u>
<u>HIS-132 American History II</u>	<u>3.00</u>
<u>HIS-163 The World Since 1945</u>	<u>3.00</u>
<u>HIS-221 African-American History.</u>	<u>3.00</u>
<u>HIS-226 The Civil War</u>	<u>3.00</u>
<u>HIS-236 North Carolina History.</u>	<u>3.00</u>
<u>POL-120 American Government</u>	<u>3.00</u>
<u>POL-130 State &amp; Local Government</u>	<u>3.00</u>
<u>POL-220 International Relations</u>	<u>3.00</u>
<u>PSY-110 Life Span Development</u>	<u>3.00</u>
<u>PSY-118 Interpersonal Psychology.</u>	<u>3.00</u>
<u>PSY-150 General Psychology.</u>	<u>3.00</u>
<u>PSY-211 Psychology of Adjustment</u>	<u>3.00</u>
<u>PSY-237 Social Psychology.</u>	<u>3.00</u>
<u>PSY-239 Psychology of Personality.</u>	<u>3.00</u>
<u>PSY-241 Developmental Psychology.</u>	<u>3.00</u>

<u>PSY-243 Child Development</u>	<u>3.00</u>
<u>PSY-246 Adolescent Psychology</u>	<u>3.00</u>
<u>PSY-249 Psychology of Aging</u>	<u>3.00</u>
<u>PSY-259 Human Sexuality</u>	<u>3.00</u>
<u>PSY-275 Health Psychology</u>	<u>3.00</u>
<u>PSY-281 Abnormal Psychology</u>	<u>3.00</u>
<u>SOC-210 Introduction to Sociology</u>	<u>3.00</u>
<u>SOC-213 Sociology of the Family</u>	<u>3.00</u>
<u>SOC-220 Social Problems</u>	<u>3.00</u>
<u>SOC-230 Race and Ethnic Relations</u>	<u>3.00</u>
<u>SOC-234 Sociology of Gender</u>	<u>3.00</u>
<u>SOC-240 Social Psychology</u>	<u>3.00</u>
<u>SOC-242 Sociology of Deviance</u>	<u>3.00</u>
<u>SOC-250 Sociology of Religion</u>	<u>3.00</u>

**Credits: 14**

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# Total Credits To Complete

**74**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / D50420

## Welding Technology Diploma D50420

Welding Technology (50420) CIP 48.0508


 Last updated on June 16, 2020, 12:34 p.m.

The following is a suggested program of study for completing this diploma in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">WLD-110 Cutting Processes</a>	<a href="#">2.00</a>
 <a href="#">WLD-115 SMAW (Stick) Plate</a>	<a href="#">5.00</a>
 <a href="#">WLD-121 GMAW (MIG) FCAW/Plate</a>	<a href="#">4.00</a>
 <a href="#">WLD-131 GTAW (TIG) Plate</a>	<a href="#">4.00</a>
<a href="#">MAT-121 Algebra/Trigonometry I</a>	<a href="#">3.00</a>

**Credits: 18**

### First Year Spring:

Take the following courses.

 <a href="#">WLD-141 Symbols and Specifications</a>	<a href="#">3.00</a>
<a href="#">ENG-111 Writing and Inquiry</a>	<a href="#">3.00</a>
<a href="#">WLD-116 SMAW (stick) Plate/Pipe</a>	<a href="#">4.00</a>
<a href="#">WLD-123 FCAW Plate</a>	<a href="#">4.00</a>
<a href="#">WLD-132 GTAW (TIG) Plate/Pipe</a>	<a href="#">3.00</a>

**Credits: 17**
**Note:**

WLD 123 replaced WLD 122 and the online catalog was updated on 6/16/2020.

For 2020-2021, WLD-122 GMAT (MIG) Plate/Pipe (3 credit hours) will be replaced by WLD-123 FCAW (Flux Cored Arc Welding) Plate (4 credit hours) if approved by NCCCS. The First Year Spring total credit hours will then be 17. The program total credit hours will then be 45. Updates will be made when NCCCS makes a decision.

### First Year Summer:

Take the following courses.

<a href="#">CIS-110 Introduction to Computers</a>	<a href="#">3.00</a>
<a href="#">WLD-270 Orbital Welding TIG/Pipe</a>	<a href="#">4.00</a>



Take one of the following courses.

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WBL-113 Work-Based Learning I

3.00

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WLD-151 Fabrication I

4.00

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**Credits: 10-11**

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# Total Credits To Complete

**45-46**

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# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / C50420

## Welding Technology Certificate C50420

Welding Technology (50420) CIP 48.0508





🕒 Last updated on Oct. 4, 2019, 3:05 p.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

 <a href="#">WLD-110 Cutting Processes</a>	<a href="#">2.00</a>
 <a href="#">WLD-115 SMAW (Stick) Plate</a>	<a href="#">5.00</a>
 <a href="#">WLD-121 GMAW (MIG) FCAW/Plate</a>	<a href="#">4.00</a>
 <a href="#">WLD-131 GTAW (TIG) Plate</a>	<a href="#">4.00</a>

**Credits: 15**

### First Year Spring:

Take the following courses.

 <a href="#">WLD-141 Symbols and Specifications</a>	<a href="#">3.00</a>
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**Credits: 3**

# Total Credits To Complete

**18**

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# Awards

**2020-2021**

Award details listed below.

[All Programs](#) / [Welding Technology](#) / C50420BC

## Welding Technology Basic Certificate C50420BC

Welding Technology (50420) CIP 48.0508

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in one semester. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u><a href="#">CIS-110 Introduction to Computers</a></u>	<u>3.00</u>
<u><a href="#">MAT-121 Algebra/Trigonometry I</a></u>	<u>3.00</u>
<u><a href="#">WLD-110 Cutting Processes</a></u>	<u>2.00</u>
<u><a href="#">WLD-115 SMAW (Stick) Plate</a></u>	<u>5.00</u>
<u><a href="#">WLD-131 GTAW (TIG) Plate</a></u>	<u>4.00</u>

**Credits: 17**

# Total Credits To Complete

**17**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / C50420ST

## Welding Technology Stick Certificate C50420ST

Welding Technology (50420) CIP 48.0508

 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">WLD-110 Cutting Processes</a>	<a href="#">2.00</a>
<a href="#">WLD-115 SMAW (Stick) Plate</a>	<a href="#">5.00</a>

**Credits: 7**

### First Year Spring:

Take the following courses.

<a href="#">WLD-116 SMAW (stick) Plate/Pipe</a>	<a href="#">4.00</a>
<a href="#">WLD-141 Symbols and Specifications</a>	<a href="#">3.00</a>

**Credits: 7**

# Total Credits To Complete

14

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / C50420HP

## Welding Technology High Performance Fabrication Certificate C50420HP

Welding Technology (50420) CIP 48.0508

🕒 Last updated on Oct. 4, 2019, 3:05 p.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	<u>4.00</u>
<u>WLD-131 GTAW (TIG) Plate</u>	<u>4.00</u>

**Credits: 10**

### First Year Spring:

Take the following courses.

<u>WLD-141 Symbols and Specifications</u>	<u>3.00</u>
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**Credits: 3**

# Total Credits To Complete

**13**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / C50420MI

## Welding Technology MIG Certificate C50420MI

Welding Technology (50420) CIP 48.0508

 Last updated on June 16, 2020, 4 p.m.

The following is a suggested program of study for completing this certificate in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
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<u>WLD-121 GMAW (MIG) FCAW/Plate</u>	<u>4.00</u>
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**Credits: 6**

### First Year Spring:

Take the following courses.

<u>WLD-123 FCAW Plate</u>	<u>4.00</u>
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<u>WLD-141 Symbols and Specifications</u>	<u>3.00</u>
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**Credits: 7**
**Note:**

WLD 123 replaced WLD 122 and the online catalog was updated 6/16/2020.

For 2020-2021, WLD-122 GMAT (MIG) Plate/Pipe (3 credit hours) will be replaced by WLD-123 FCAW (Flux Cored Arc Welding) Plate (4 credit hours) if approved by NCCCS. The First Year Spring total credit hours will then be 7. The program total credit hours will then be 13. Updates will be made when NCCCS makes a decision.

# Total Credits To Complete

13

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / C50420RB

## Welding Technology Orbital GTAW Pipe Certificate C50420RB

Welding Technology (50420) CIP 48.0508

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<u>WLD-110 Cutting Processes</u>	<u>2.00</u>
<u>WLD-131 GTAW (TIG) Plate</u>	<u>4.00</u>

**Credits: 6**

### First Year Spring:

Take the following courses.

<u>WLD-132 GTAW (TIG) Plate/Pipe</u>	<u>3.00</u>
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**Credits: 3**

### First Year Summer:

Take the following courses.

<u>WLD-270 Orbital Welding TIG/Pipe</u>	<u>4.00</u>
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**Credits: 4**

# Total Credits To Complete

**13**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / C50420TI

## Welding Technology TIG Certificate C50420TI

Welding Technology (50420) CIP 48.0508

🕒 Last updated on June 28, 2019, 10:59 a.m.

The following is a suggested program of study for completing this certificate in two semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time or part-time).

The  symbol denotes a core course that may not be substituted.

### First Year Fall:

Take the following courses.

<a href="#">WLD-110 Cutting Processes</a>	<u>2.00</u>
<a href="#">WLD-131 GTAW (TIG) Plate</a>	<u>4.00</u>

**Credits: 6**

### First Year Spring:

Take the following courses.

<a href="#">WLD-132 GTAW (TIG) Plate/Pipe</a>	<u>3.00</u>
<a href="#">WLD-141 Symbols and Specifications</a>	<u>3.00</u>

**Credits: 6**

# Total Credits To Complete

**12**



# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / D50420PB

## CCPP Welding Technology Diploma D50420PB

Welding Technology (50420) CIP 48.0508

 Last updated on June 28, 2019, 10:59 a.m.

## Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).The  symbol denotes a core course that may not be substituted.

### Take the following courses.:

<a href="#">CIS-110 Introduction to Computers</a>	<u>3.00</u>
<a href="#">DFT-151 CAD I</a>	<u>3.00</u>
<a href="#">ENG-111 Writing and Inquiry</a>	<u>3.00</u>
<a href="#">MAT-121 Algebra/Trigonometry I</a>	<u>3.00</u>
<a href="#">WLD-110 Cutting Processes</a>	<u>2.00</u>
<a href="#">WLD-115 SMAW (Stick) Plate</a>	<u>5.00</u>
<a href="#">WLD-116 SMAW (stick) Plate/Pipe</a>	<u>4.00</u>
<a href="#">WLD-121 GMAW (MIG) FCAW/Plate</a>	<u>4.00</u>
<a href="#">WLD-131 GTAW (TIG) Plate</a>	<u>4.00</u>
<a href="#">WLD-132 GTAW (TIG) Plate/Pipe</a>	<u>3.00</u>
<a href="#">WLD-141 Symbols and Specifications</a>	<u>3.00</u>
<a href="#">WLD-265 Automated Welding/Cutting</a>	<u>4.00</u>

**Credits: 41**

# Total Credits To Complete

**41**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / C50420PB

## CCPP Welding Technology Basic Certificate C50420PB

Welding Technology (50420) CIP 48.0508

🕒 Last updated on June 28, 2019, 10:59 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The  symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">WLD-110 Cutting Processes</a>	<a href="#">2.00</a>
<a href="#">WLD-115 SMAW (Stick) Plate</a>	<a href="#">5.00</a>
<a href="#">WLD-121 GMAW (MIG) FCAW/Plate</a>	<a href="#">4.00</a>
<a href="#">WLD-131 GTAW (TIG) Plate</a>	<a href="#">4.00</a>
<a href="#">WLD-141 Symbols and Specifications</a>	<a href="#">3.00</a>

**Credits: 18**

# Total Credits To Complete

**18**

# Awards

2020-2021

Award details listed below.

[All Programs](#) / [Welding Technology](#) / C50420PS

## CCPP Welding Technology Stick Certificate C50420PS Welding Technology (50420) CIP 48.0508

🕒 Last updated on June 17, 2020, 6:46 a.m.

### Career and College Promise Programs (CCPP)

For additional information, please see [About Career and College Promise](#).

The 🎯 symbol denotes a core course that may not be substituted.

#### Take the following courses.:

<a href="#">WLD-110 Cutting Processes</a>	<u>2.00</u>
<a href="#">WLD-115 SMAW (Stick) Plate</a>	<u>5.00</u>
<a href="#">WLD-116 SMAW (stick) Plate/Pipe</a>	<u>4.00</u>
<a href="#">WLD-141 Symbols and Specifications</a>	<u>3.00</u>

**Credits: 14**

# Total Credits To Complete

**14**



# Course Descriptions





# Course Information

2020-2021

The courses listed in this catalog constitute the content of the curriculum programs of the college. The course prefixes are listed in alphabetical order.

## Credit Hours

Credit Hours are awarded as follows:

- Credit of one semester hour is awarded for each 16 hours of "class work". Class work is lecture and other classroom instructions. Class work is under the supervision of an instructor.
- Credit of one semester hour is awarded for each 32 hours of "experiential laboratory work". Experiential laboratory work means instruction given to a student by an instructor to increase the student's knowledge and skills without immediate student application.
- Credit of one semester hour is awarded for each 48 hours of "faculty directed laboratory work". Faculty directed laboratory work involves structured and coordinated demonstration by an instructor with an immediate student application.
- Credit of one semester hour is awarded for each 48 hours of "clinical practice". Clinical practice is a structured, faculty-directed learning experience in a health science program which develops job proficiency. Clinical practice requires significant preparation, coordination and scheduling by the facility and is under the supervision of an instructor or preceptor who is qualified for the particular program.
- Credit of one semester hour is awarded for each 160 hours of 'work experience' such as cooperative education, practicums, and internships. Work experience involves the development of job skills by providing the student with employment that is directly related to, and coordinated with, the education program. Student activity in work experience is planned and coordinated by a college representative, and the employer is responsible for the control and supervision of the student on the job.

## Contact Hours

The contact hours for a course are the sum of the lecture hours and lab, clinical or work experience.

## Writing Intensive Courses

Writing intensive courses are courses in which students write to learn. Writing assignments may range from highly informal, such as journals, to the highly formal, such as research papers. Normally, a writing intensive course will contain a mixture of informal and formal writing assignments which will account for at least seventy percent of a student's overall evaluation in the course. It is important to note that the catalog's designation of a course as "writing intensive" indicates only Rowan-Cabarrus Community College's internal curriculum designation of that course as writing intensive. Students intending to transfer credit to other colleges and universities should consult with those institutions to determine if the course in question will be accepted as writing intensive.

## Developmental/Non-Credit Courses

Developmental courses are designed to prepare students for college level work and will not satisfy credit hours for any degree, diploma, or certificate program. They will not transfer to a four-year institution, but will transfer to any of the community colleges within the NC Community College System. Credit earned for these courses will only satisfy the prerequisites for entry into a curriculum level course.

Non-Credit courses are numbered below 100. Students may be required to take one or more developmental courses due to level of proficiency, or they may choose developmental courses if they feel the need for review. Students level of proficiency can be evaluated by SAT/ACT, college placement test, or high school GPA. Non-credit courses provide the necessary refresher for success in a given curriculum.

# Courses

2020-2021

Course details listed below.

## All Courses

### ACA

#### ACA-115

##### Success & Study Skills

This course provides an orientation to the campus resources and academic skills necessary to achieve educational objectives. Emphasis is placed on an exploration of facilities and services, study skills, library skills, self-assessment, wellness, goal-setting, and critical thinking. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals.

**Class 0.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

#### ACA-118

##### College Study Skills

This course covers skills and strategies designed to improve study behaviors. Topics include time management, note taking, test taking, memory techniques, active reading strategies, critical thinking, communication skills, learning styles, and other strategies for effective learning. Upon completion, students should be able to apply appropriate study strategies and techniques to the development of an effective study plan.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

#### ACA-122

##### College Transfer Success

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.

**Class 0.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### ACC

#### ACC-115

##### College Accounting

This course introduces basic accounting principles for a business. Topics include the complete accounting cycle with end-of-period statements, bank reconciliation, payrolls, and petty cash. Upon completion, students should be able to demonstrate an understanding of accounting principles and apply those skills to a business organization.

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

#### ACC-120

##### Principles of Financial Accounting

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.

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

#### ACC-121

#### Principles of Managerial Accounting

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.

**Prerequisites** Take ACC-120

**Class** 3.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-129

##### Individual Income Taxes

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.

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-132

##### NC Business Taxes

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.

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-140

##### Payroll Accounting

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.

**Prerequisites** Take One: ACC-115 or ACC-120

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-149

##### Intro to ACC Spreadsheets

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.

**Prerequisites** Take One: ACC-115 or ACC-120

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-150

##### Accounting Software Applications

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.

**Prerequisites** Take One: ACC-115 or ACC-120

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-175

#### Hotel and Restaurant Accounting

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.

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-215

##### Ethics in Accounting

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.

**Prerequisites** Take ACC-121

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-220

##### Intermediate Accounting I

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.

**Prerequisites** Take ACC-120

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-221

##### Intermediate Accounting II

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.

**Prerequisites** Take ACC-220

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-225

##### Cost Accounting

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.

**Prerequisites** Take ACC-121

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ACC-240

##### Gov & Not-For-Profit Acct

This course introduces principles and procedures applicable to governmental and not-for-profit organizations. Emphasis is placed on various budgetary accounting procedures and fund accounting. 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.



**Prerequisites** Take ACC-121

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ACC-250

Advanced Accounting

This course is designed to analyze the special accounting issues, which may include business combinations, partnerships, international accounting, estates, and trusts. Emphasis is placed on analyzing transactions and preparing working papers and financial statements. Upon completion, students should be able to solve a wide variety of problems by advanced application of accounting principles and procedures.

**Prerequisites** Take ACC-220

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ACC-268

Information Systems & Internal Controls

This course covers the design and operation of accounting information systems, with emphasis placed upon transaction cycles and the necessary controls for reliable data. Topics include accounting procedures; authorizing, documentation, and monitoring; flowcharting, data flow diagrams, and scheduling; and some auditing concepts. Upon completion, students should be able to demonstrate an analytical problem-solving ability to communicate effectively their analysis in written and oral presentations.

**Prerequisites** Take ACC-121

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ACC-269

Auditing & Assurance Services

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.

**Prerequisites** Take ACC-220

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ACC-270

International Accounting

This course includes identifying, recording, and interpreting financial information for accounting systems used in different countries. Topics include currency exchange rates, methods of setting and selecting transfer prices, practices used to account for rates of inflation, and major types of taxes. Upon completion, students should be able to describe accounting systems and their impacts on different currencies and demonstrate a basic knowledge of international accounting.

**Prerequisites** Take ACC-120

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## AHR

AHR-110

Introduction to Refrigeration

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.

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 5.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-112

##### Heating Technology

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.

**Class 2.00, Lab 4.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-113

##### Comfort Cooling

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.

**Prerequisites** Take AHR-110

**Class 2.00, Lab 4.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-114

##### Heat Pump Technology

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.

**Prerequisites** Take One: AHR-110 or AHR-113

**Class 2.00, Lab 4.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-115

##### Refrigeration Systems

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.

**Prerequisites** Take AHR-110

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-120

##### HVACR Maintenance

This course introduces the basic principles of industrial air conditioning and heating systems. Emphasis is placed on preventive maintenance procedures for heating and cooling equipment and related components. Upon completion, students should be able to perform routine preventive maintenance tasks, maintain records, and assist in routine equipment repairs.

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-130

##### HVAC Controls

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.

**Prerequisites** Take One: AHR-111, ELC-111, or ELC-112

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-151

##### HVAC Duct Systems I

This course introduces the techniques used to lay out and fabricate duct work commonly found in HVAC systems. Emphasis is placed on the skills required to fabricate duct work. Upon completion, students should be able to lay out and fabricate simple duct work.

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-152

##### HVAC Duct Systems II

This course introduces the techniques used to lay out and fabricate more advanced types of duct work found in HVAC systems. Emphasis is placed on the skills required to work with complex rectangular and round fittings and transitions. Upon completion, students should be able to lay out and fabricate complex rectangular and round fittings.

**Prerequisites** Take AHR-151

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-160

##### Refrigerant Certification

This course covers the requirements for the EPA certification examinations. Topics include small appliances, high pressure systems, and low pressure systems. Upon completion, students should be able to demonstrate knowledge of refrigerants and be prepared for the EPA certification examinations.

**Class 1.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-211

##### Residential System Design

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-212

##### Advanced Comfort Systems

This course covers water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pump systems including variable speed drives and controls. Emphasis is placed on the application, installation, and servicing of water-source systems and the mechanical and electronic control components of advanced comfort systems. Upon completion, students should be able to test, analyze, and troubleshoot water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pumps.

**Prerequisites** Take AHR-114

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-213

##### HVACR Building Code

This course covers the North Carolina codes that are applicable to the design and installation of HVACR systems. Topics include current North Carolina codes as applied to HVACR design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of North Carolina codes that apply to specific areas of the HVACR trade.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-215

##### Commercial HVAC Controls

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.

**Prerequisites** Take One: AHR-111, ELC-111, or ELC 112

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-225

##### Commercial System Design

This course covers the principles of designing heating and cooling systems for commercial buildings. Emphasis is placed on commercial heat loss/gain calculations, applied psychometrics, air-flow calculations, air distribution system design, and equipment selection. Upon completion, students should be able to calculate heat loss/gain, design and size air and water distribution systems, and select equipment.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-235

##### Refrigeration Design

This course covers the principles of commercial refrigeration system operation and design. Topics include walk-in coolers, walk-in freezers, system components, load calculations, equipment selection, defrost systems, refrigerant line sizing, and electric controls. Upon completion, students should be able to design, adjust, and perform routine service procedures on a commercial refrigeration system.

**Prerequisites** Take AHR-110

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-240

##### Hydronic Heating

This course covers the accepted procedures for proper design, installation, and balance of hydronic heating systems for residential or commercial buildings. Topics include heating equipment; pump, terminal unit, and accessory selection; piping system selection and design; and pipe sizing and troubleshooting. Upon completion, students should be able to assist with the proper design, installation, and balance of typical hydronic systems.

**Prerequisites** Take AHR-112

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AHR-245

##### Chiller Systems

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.

**Prerequisites** Take AHR-110

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## AHR-255

### Indoor Air Quality

This course introduces the techniques of assessing and maintaining the quality of the indoor environment in residential and commercial structures. Topics include handling and investigating complaints, filter selection, humidity control, testing for sources of carbon monoxide, impact of mechanical ventilation, and building and duct pressures. Upon completion, students should be able to assist in investigating and solving common indoor air quality problems.

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## AHR-263

### Energy Management

This course covers building automation computer programming as currently used in energy management. Topics include night setback, duty cycling, synchronization, schedule optimization, and anticipatory temperature control. Upon completion, students should be able to write programs utilizing the above topics and connect computer systems to HVAC systems.

**Prerequisites** Take One: AHR-125 or AHR-215

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

# ANT

## ANT-210

### General Anthropology

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## ANT-220

### Cultural Anthropology

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## ANT-230

### Physical Anthropology

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## ANT-230A

### Physical Anthropology Lab

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.

**Corequisites** ANT-230

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## ANT-240

### Archaeology

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## ANT-240A

### Archaeology Field Lab

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.

**Corequisites** ANT-240

**Class** 0.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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# ARC

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## ARC-114

### Architectural CAD

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.

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## ARC-221

### Architectural 3-D CAD

This course introduces architectural three-dimensional CAD applications. Topics include three-dimensional drawing, coordinate systems, viewing, rendering, modeling, and output options. Upon completion, students should be able to prepare architectural three-dimensional drawings and renderings.

**Prerequisites** Take ARC-114

**Class** 1.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## ARC-225

### Architectural Building Information Modeling I

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.

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## ARC-226

### Architectural Building Information Modeling II

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.

**Prerequisites** Take ARC-225

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## ART

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ART-111

Art Appreciation

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ART-114

Art History Survey I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ART-115

Art History Survey II

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ART-117

Non-Western Art History

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ART-121

Two-Dimensional Design

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.

**Class** 0.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ART-122

Three-Dimensional Design

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.



**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-131

##### Drawing I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-132

##### Drawing II

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.

**Prerequisites** Take ART-131

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-135

##### Figure Drawing I

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.

**Prerequisites** Take ART-131

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-171

##### Digital Design I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on Nov. 7, 2019, 9:18 a.m.

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#### ART-212

##### Gallery Assistantship I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-214

##### Portfolio and Resume

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.

**Class 0.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-215

##### Visual Art Portfolio



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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-231

##### Printmaking I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-232

##### Printmaking II

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.

**Prerequisites** Take ART 231.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-235

##### Figure Drawing II

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.

**Prerequisites** Take ART-135

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-240

##### Painting I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-241

##### Painting II

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.

**Prerequisites** Take ART-240

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-244

##### Watercolor

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-261

##### Photography I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-262

##### Photography II

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.

**Prerequisites** Take ART-261

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-264

##### Digital Photography I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-265

##### Digital Photography II

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.

**Prerequisites** Take ART-264

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-266

##### Videography I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### ART-267

##### Videography II

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.

**Prerequisites** Take ART-266

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ART-275

#### Introduction to Graphic Design

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ART-281

#### Sculpture I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ART-282

#### Sculpture II

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.

**Prerequisites** Take ART-281

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ART-283

#### Ceramics I

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ART-284

#### Ceramics II

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.

**Prerequisites** Take ART-283

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ART-288

#### Studio

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.

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## AST

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### AST-111

#### Descriptive Astronomy

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AST-111A

##### Descriptive Astronomy Lab

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Corequisites** AST-111

**Class 0.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AST-151

##### General Astronomy I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take 1 group; # Take MAT-070; # Take DMA-010 DMA-020 DMA-030 DMA-040 DMA-050 DMA-060; #Take MAT-003 with a grade of P3.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AST-151A

##### General Astronomy I Lab

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Corequisites** AST-151

**Class 0.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AST-152

##### General Astronomy II

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.

**Prerequisites** Take AST-151

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AST-152A

##### General Astronomy II Lab

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.

**Prerequisites** Take AST-151; Take AST-151A;

**Corequisites** AST-152

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## ATR

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ATR-112

Intro to Automation

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.

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

ATR-281

Automated Manufacturing

This course introduces the concepts and principles of automation in the manufacturing environment. Emphasis is placed on the devices used in hard and flexible automated systems, including the study of inputs, outputs, and control system integration. Upon completion, students should be able to plan, design, and implement automation to support manufacturing processes.

**Class** 3.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## AUT

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AUT-113

Automotive Servicing I

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.

**Prerequisites** Take AUT-181 AUT-183 AUT-141 AUT-151 AUT-163

**Class** 0.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

AUT-116

Engine Repair

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.

**Corequisites** AUT-116A

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

#### AUT-116A

##### Engine Repair Lab

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.

#### **Corequisites** AUT-116

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-141

##### Suspension & Steering Systems

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.

#### **Corequisites** AUT-141A

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-141A

##### Suspension & Steering Lab

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.

#### **Corequisites** AUT-141

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-151

##### Brake Systems

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.

#### **Corequisites** AUT-151A

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-151A

##### Brakes Systems Lab

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.

#### **Corequisites** AUT-151

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-163

##### Advanced Automotive Electricity

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.

**Prerequisites** Take TRN-120

**Corequisites** AUT-163A

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-163A

Advanced Automotive Electricity Lab

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.

**Corequisites** AUT-163

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-181

Engine Performance 1

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.

**Prerequisites** Take TRN-120;

**Corequisites** AUT-181A

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-181A

Engine Performance 1 Lab

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.

**Corequisites** AUT-181

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-183

Engine Performance 2

This course covers study of the electronic engine control systems, the diagnostic process used to locate engine performance concerns, and procedures used to restore normal operation. Topics will include currently used fuels and fuel systems, exhaust gas analysis, emission control components and systems, OBD II (on-board diagnostics) and inter-related electrical/electronic systems. Upon completion, students should be able to diagnose and repair complex engine performance concerns using appropriate test equipment and service information.

**Prerequisites** Take AUT-181

**Class** 2.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-221

Automatic Transmissions/Transaxles

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.



**Prerequisites** Take TRN-120;

**Corequisites** AUT-221A

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-221A

Automatic Transmissions/Transaxles Lab

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.

**Corequisites** AUT-221

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-231

Manual Transmissions/Transaxles/DriveTrains

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.

**Prerequisites** Take TRN-120;

**Corequisites** AUT-231A

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### AUT-231A

Manual Transmissions/Transaxles/DriveTrains Lab

This course is an optional lab for the program that needs to meet NATEF hour standards but does not have a co-op component in the program. Topics include manual drive train diagnosis, service and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to diagnose and repair manual drive trains.

**Corequisites** AUT-231

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## BAF

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#### BAF-143

Financial Planning

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## BIO

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#### BIO-106

Intro to Anatomy/Physiology/Microbiology



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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### BIO-110

##### Principles of Biology

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### BIO-111

##### General Biology I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take ENG 002 or ENG 111.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on Oct. 23, 2019, 12:40 p.m.

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#### BIO-112

##### General Biology II

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take BIO-111

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### BIO-140

##### Environmental Biology

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BIO-163

#### Basic Anatomy & Physiology

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.

**Prerequisites** Take ENG-002 or ENG-111

**Class 4.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 5.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BIO-168

#### Anatomy and Physiology I

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.

**Prerequisites** Take ENG-002 or ENG-111

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BIO-169

#### Anatomy and Physiology II

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.

**Prerequisites** Take BIO-168; with a grade of "C" or better.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BIO-175

#### General Microbiology

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.

**Prerequisites** Take One: BIO-110, BIO-111, BIO-163, BIO-165, or BIO-168.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BIO-250

#### Genetics

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.

**Prerequisites** Take BIO-112

**Class** 3.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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BIO-275

Microbiology

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.

**Prerequisites** Take One: BIO 110, BIO 111, BIO 163, BIO 165, or BIO 168

**Class** 3.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## BPR

BPR-111

Print Reading

This course introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic prints and visualize the features of a part or system.

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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BPR-121

Blueprint Reading-Mechanical

This course covers the interpretation of intermediate blueprints. Topics include tolerancing, auxiliary views, sectional views, and assembly drawings. Upon completion, students should be able to read and interpret a mechanical working drawing.

**Prerequisites** Take One: BPR-111 or MAC-131

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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BPR-130

Print Reading-Construction

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## BTC

### BTC-270

#### Recombinant DNA Technology

This course covers basic methods in biotechnology for the manipulation of nucleic acids. Emphasis is placed on topics concerning techniques used in recombinant DNA technology, including PCR, restriction digests, mapping, cloning, and forensics. Upon completion, students should be able to demonstrate an understanding of the theory, practice, and application of recombinant DNA techniques.

**Prerequisites** Take BTC-181 and BIO-250 or BTC-250

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on May 5, 2020, 12:11 p.m.

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### BTC-285

#### Cell Culture

This course introduces the theory and practices required to successfully initiate and maintain plant and animal cell cultures. Topics include aseptic techniques, the growth environment, routine maintenance of cell cultures, specialized culture techniques, and various applications. Upon completion, students should be able to demonstrate the knowledge and skills required to grow, maintain, and manipulate cells in culture.

**Prerequisites** Take One: BIO-175, BIO-275 or BTC-275

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on May 5, 2020, 12:15 p.m.

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### BTC-286

#### Immunological Techniques

This course covers the principles and practices of modern immunology, including the interactions between the various cellular and chemical components of the immune response. Topics include antigens, humoral immunity, cellular immunity, complement, immunological assays, and hybridoma use and production. Upon completion, students should be able to discuss the immune response, perform immunological assays, and make monoclonal antibody-producing hybridomas.

**Prerequisites** Take BTC-285

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on May 5, 2020, 12:18 p.m.

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### BTC-288

#### Biotechnology Lab Experience

This course provides an opportunity to pursue an individual laboratory project in biotechnology. Emphasis is placed on developing, performing, and maintaining records of a project in a specific area of interest. Upon completion, students should be able to complete the project with accurate records and demonstrate an understanding of the process.

**Prerequisites** Take One Set: Set 1: BIO-250 and BTC-281 Set 2: BIO-250 and BTC-285 Set 3: BIO-250 and BTC-286 Set 4: BTC-250 and BTC-281 Set 5: BTC-250 and BTC-285 Set 6: BTC-250 and BTC-286

**Class 0.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on May 26, 2020, 4:21 p.m.

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## BUS

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### BUS-110

#### Introduction to Business

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-115

#### Business Law I

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-121

#### Business Math

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on Oct. 28, 2019, 10:37 a.m.

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### BUS-125

#### Personal Finance

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-137

#### Principles of Management

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-147

#### Business Insurance

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-153

#### Human Resource Management

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-217

#### Employment Law and Regulations

This course introduces the principle laws and regulations affecting public and private organizations and their employees or prospective employees. Topics include fair employment practices, EEO, affirmative action, and employee rights and protections. Upon completion, students should be able to evaluate organization policy for compliance and assure that decisions are not contrary to law.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-225

#### Business Finance

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.

**Prerequisites** Take ACC-120

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-230

#### Small Business Management

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-234

#### Training and Development

This course covers developing, conducting, and evaluating employee training with attention to adult learning principles. Emphasis is placed on conducting a needs assessment, using various instructional approaches, designing the learning environment, and locating learning resources. Upon completion, students should be able to design, conduct, and evaluate a training program.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-240

#### Business Ethics

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-253

#### Leadership and Management Skills

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-256

#### Recruiting, Selection, & Personnel Planning

This course introduces the basic principles involved in managing the employment process. Topics include personnel planning, recruiting, interviewing and screening techniques, maintaining employee records; and voluntary and involuntary separations. Upon completion, students should be able to acquire and retain employees who match position requirements and fulfill organizational objectives.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-258

#### Compensation and Benefits

This course is designed to study the basic concepts of pay and its role in rewarding performance. Topics include wage and salary surveys, job analysis, job evaluation techniques, benefits, and pay-for-performance programs. Upon completion, students should be able to develop and manage a basic compensation system to attract, motivate, and retain employees.

### BUS-259

#### HRM Applications

This course provides students in the Human Resource Management concentration the opportunity to reinforce their learning experiences from preceding HRM courses. Emphasis is placed on application of day-to-day HRM functions by completing in-basket exercises and through simulations. Upon completion, students should be able to determine the appropriate actions called for by typical events that affect the status of people at work.

**Prerequisites** Take All: BUS-217, BUS-234, BUS-256, and BUS-258.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### BUS-260

#### Business Communication

This course is designed to develop skills in writing business communications. Emphasis is placed on business reports, correspondence, and professional presentations. Upon completion, students should be able to communicate effectively in the work place.

**Prerequisites** Take One: ENG-110 or ENG-111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CCT

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### CCT-112

#### Ethics & High Technology

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CHM

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### CHM-121

#### Foundations of Chemistry

This course is designed for those who have no previous high school chemistry or a grade of C or less in high school chemistry. Topics include matter, structure of the atom, nomenclature, chemical equations, bonding and reactions; mathematical topics include measurements, scientific notation, and stoichiometry. Upon completion, students should be able to demonstrate an understanding of chemical concepts and an ability to solve related problems in subsequent chemistry courses.

**Prerequisites** #Take ENG-002 or ENG-111 #Take DMA-010 DMA-020 DMA-030 DMA-040 and DMA-050 or Take MAT-003 with a grade of P2

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### CHM-131

#### Introduction to Chemistry



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.

**Prerequisites** # Take ENG-002 or ENG-111 # Take DMA-010 DMA-020 DMA-030 DMA-040 DMA-050 and DMA-060 or Take MAT-003 with a grade of P3

**Corequisites** CHM-131A

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**Class 3.00, Lab 3.00, Clinical 1.00, Work 0.00, SHC 3.00**

CHM-131A

Introduction to Chemistry Lab

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.

**Corequisites** CHM-131

**Class 0.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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CHM-132

Organic and Biochemistry

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.

**Prerequisites** Take one set: Set 1: CHM-131 and CHM-131A Set 2: CHM-151

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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CHM-151

General Chemistry I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take ENG-002 or ENG-111 Take MAT 003, Tier 3.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on Feb. 17, 2020, 5:24 p.m.

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CHM-152

General Chemistry II

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take CHM-151; with a grade of "C" or better. Take MAT-171.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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CHM-251

Organic Chemistry I



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.

**Prerequisites** Take CHM-152; minimum grade of "C"

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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CHM-252

Organic Chemistry II

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.

**Prerequisites** Take CHM-251; minimum grade "C"

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## CIS

CIS-110

Introduction to Computers

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

CIS-115

Intro to Programming & Logic

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.

**Prerequisites** 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

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## CIV

CIV-240

Project Management

This course introduces construction planning and scheduling techniques and project management software. Topics include construction safety, operation analysis, construction scheduling, construction control systems, claims and dispute resolutions, project records and documentation. Upon completion, students should be able to demonstrate an understanding of the roles of construction project participants, maintain construction records, and prepare construction schedules.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

# CJC

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## CJC-110

### Basic Law Enforcement BLET

This course covers the basic skills and knowledge needed for entry-level employment as a law enforcement officer in North Carolina. Topics include those mandated by North Carolina Administration Code as essential for functioning in law enforcement. Upon completion, the student should be able to demonstrate competence in the topics required for the state comprehensive certification examination. Additionally, the student must successfully complete the state comprehensive written examination to earn the certificate.

**Class 10.00, Lab 30.00, Clinical 0.00, Work 0.00, SHC 20.00**

🕒 Last updated on Sept. 27, 2019, 9:19 a.m.

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## CJC-111

### Introduction to Criminal Justice

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CJC-112

### Criminology

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CJC-113

### Juvenile Justice

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CJC-120

### Interviews/Interrogations

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

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on Sept. 6, 2019, 9:31 a.m.

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## CJC-121

### Law Enforcement Operations

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CJC-131

### Criminal Law

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-132

##### Court Procedure & Evidence

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-141

##### Corrections

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-161

##### Introduction to Homeland Security

This course introduces the historical, organizational and practical aspects of Homeland Security. Topics include a historic overview, definitions and concepts, organizational structure, communications, technology, mitigation, prevention and preparedness, response and recovery, and the future of Homeland Security. Upon completion, students should be able to explain essential characteristics of terrorism and Homeland Security, and define roles, functions and interdependency between agencies.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-162

##### Intelligence Analysis and Security Management

This course examines intelligence analysis and its relationship to the security management of terrorist attacks and other threats to national security of the United States. Topics include a historic overview, definitions and concepts, intelligence evolution-politicization-operations-strategies, surveillance, analysis perspectives, covert action, and ethics. Upon completion, students should be able to outline intelligence policies, evaluate source information, implement intelligence techniques and analysis, identify threats, and apply ethical behaviors.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-163

##### Transportation and Border Security

This course provides an in-depth view of modern border and transportation security including the technologies used for detecting potential threats from terrorists and weapons. Topics include an overview of security challenges, detection devices and equipment, transportation systems, facilities, threats and counter-measures, and security procedures, policies and agencies. Upon completion, students should be able to describe border security, the technologies used to enforce it, and the considerations and strategies of border security agencies.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-170

##### Critical Incident Mgmt for Public Safety

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.

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#### CJC-212

##### Ethics & Community Relations

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-214

##### Victimology

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-221

##### Investigative Principles

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.

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-223

##### Organized Crime

This course introduces the evolution of traditional and non-traditional organized crime and its effect on society and the criminal justice system. Topics include identifying individuals and groups involved in organized crime, areas of criminal activity, legal and political responses to organized crime, and other related topics. Upon completion, students should be able to identify the groups and activities involved in organized crime and the responses of the criminal justice system.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-231

##### Constitutional Law

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-233

##### Correctional Law

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CJC-261

#### High-Risk Situations

This course prepares students to employ proper response methods, including a risk and attack analysis, when faced with high-risk situations. Emphasis will be placed on cover and evacuation techniques when faced with an active, barricaded shooter, improvised explosive device recognition, and hazardous material impact assessment. Upon completion, students should be able to demonstrate an ability to analyze a high-risk situation and use the proper decision making process to respond.

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## CMT

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### CMT-120

#### Codes and Inspections

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### CMT-210

#### Construction Management Fundamentals

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### CMT-212

#### Total Safety Performance

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.

**Corequisites** CMT-210

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### CMT-214

#### Planning and Scheduling

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.

**Prerequisites** Take All: CMT-210 and BPR-130

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### CMT-216

#### Costs and Productivity

This course covers the relationships between time, work completed, work-hours spent, schedule duration, equipment hours, and materials used. Topics include production rates, productivity unit rates, work method improvements, and overall total project cost control. Upon completion, the student should be able to demonstrate an understanding of how costs may be controlled and productivity improved on a construction project.

**Prerequisites** Take CMT-210

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### CMT-218

#### Human Relations Issues

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.

**Prerequisites** Take CMT-210

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## COM

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### COM-110

#### Introduction to Communication

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### COM-120

#### Intro to Interpersonal Communication

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### COM-140

#### Introduction to Intercultural Communication

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on Oct. 18, 2019, 9:21 a.m.

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### COM-150

#### Introduction to Mass Communication

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.

**Prerequisites** Take ENG-111

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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COM-231

Public Speaking

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## COS

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COS-111

Cosmetology Concepts I

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.

**Corequisites** COS-112

**Class** 4.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-111AB

Cosmetology Concepts I-Part A

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.

**Corequisites** COS-112AB

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-111BB

Cosmetology Concepts I-Part B

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.

**Prerequisites** Take COS-111AB

**Corequisites** COS-112BB

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-112

Salon I

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.



**Corequisites** COS-111

**Class** 0.00, **Lab** 24.00, **Clinical** 0.00, **Work** 0.00, **SHC** 8.00

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COS-112AB

Salon I-Part A

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.

**Corequisites** COS-111AB

**Class** 0.00, **Lab** 12.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-112BB

Salon I-Part B

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.

**Prerequisites** Take COS-112AB

**Corequisites** COS-111BB

**Class** 0.00, **Lab** 12.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-113

Cosmetology Concepts II

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.

**Prerequisites** Take All: COS-111 and COS-112

**Class** 4.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-113AB

Cosmetology Concepts II-Part A

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.

**Prerequisites** Take COS-111 and COS-112

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-113BB

Cosmetology Concepts II-Part B

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.

**Prerequisites** Take COS-111 and COS 112. Take COS-113AB.

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-114

Salon II

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.



**Prerequisites** Take All: COS-111 and COS-112

**Class** 0.00, **Lab** 24.00, **Clinical** 0.00, **Work** 0.00, **SHC** 8.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-114AB

Salon II-Part A

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.

**Prerequisites** Take COS-111 and COS-112.

**Class** 0.00, **Lab** 12.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-114BB

Salon II-Part B

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.

**Prerequisites** Take COS-111 and COS-112. Take COS-114AB.

**Class** 0.00, **Lab** 12.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-115

Cosmetology Concepts III

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.

**Prerequisites** Take All: COS-111 and COS-112

**Class** 4.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-115AB

Cosmetology Concepts III-Part A

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.

**Prerequisites** Take COS-111 and COS-112.

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-115BB

Cosmetology Concepts III-Part B

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.

**Prerequisites** Take COS-111 and COS-112. COS-115AB;

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-116

Salon III

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.

**Prerequisites** Take All: COS-111 and COS-112

**Class** 0.00, **Lab** 12.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

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COS-116AB

Salon III-Part A

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.

**Prerequisites** Take COS-111 and COS-112.

**Class** 0.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-116BB

Salon III-Part B

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.

**Prerequisites** Take COS-111 and COS-112 COS-116AB;

**Class** 0.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-117

Cosmetology Concepts IV

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.

**Prerequisites** Take All: COS-111 and COS-112

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-117AB

Cosmetology Concepts IV-Part A

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.

**Prerequisites** Take All: COS-111 and COS-112

**Class** 1.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-117BB

Cosmetology Concepts IV-Part B

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.

**Prerequisites** Take All: COS-111 and COS-112. Take COS-117AB.

**Class** 1.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## COS-118

### Salon IV

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.

**Prerequisites** Take All: COS-111 and COS-112

**Class** 0.00, **Lab** 21.00, **Clinical** 0.00, **Work** 0.00, **SHC** 7.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## COS-118AB

### Salon IV-Part A

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.

**Prerequisites** Take All: COS-111 and COS-112

**Class** 0.00, **Lab** 10.50, **Clinical** 0.00, **Work** 0.00, **SHC** 3.50

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## COS-118BB

### Salon IV-Part B

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.

**Prerequisites** Take All: COS-111 and COS-112. Take COS-118AB.

**Class** 0.00, **Lab** 10.50, **Clinical** 0.00, **Work** 0.00, **SHC** 3.50

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## COS-119

### Esthetics Concepts I

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.

**Corequisites** COS-120

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## COS-120

### Esthetics Salon I

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.

**Corequisites** COS-119

**Class** 0.00, **Lab** 18.00, **Clinical** 0.00, **Work** 0.00, **SHC** 6.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## COS-121

### Manicure/Nail Technology I

This course covers techniques of nail technology, hand and arm surface manipulation, and recognition of nail diseases and disorders. Topics include OSHA/safety, sanitation, bacteriology, product knowledge, salesmanship, manicures, artificial applications, pedicures, surface manipulation, and other related topics. Upon completion, students should be able to safely and competently perform nail care, including manicures, pedicures, surface manipulations, decorating and artificial applications in a salon setting.

**Class 4.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 6.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### COS-125

##### Esthetics Concepts II

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.

**Prerequisites** Take COS-119

**Corequisites** COS-126

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on Oct. 31, 2019, 12:22 p.m.

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#### COS-126

##### Esthetics Salon II

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.

**Prerequisites** Take COS-120

**Corequisites** COS-125

**Class 0.00, Lab 18.00, Clinical 0.00, Work 0.00, SHC 6.00**

🕒 Last updated on Oct. 31, 2019, 12:22 p.m.

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#### COS-222

##### Manicure/Nail Technology II

This course covers advanced techniques of nail technology and hand and arm surface manipulation. Topics include OSHA/safety, product knowledge, customer service, salesmanship, artificial applications, nail art, and other related topics. Upon completion, students should be able to demonstrate competence necessary for the licensing examination, including advanced nail care, artificial enhancements, and decorations.

**Prerequisites** Take COS-121

**Class 4.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 6.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### COS-223

##### Contemp Hair Coloring

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.

**Prerequisites** Take COS-111 COS-112

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### COS-240

##### Contemporary Design

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.

**Prerequisites** Take COS-111 COS-112;

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### COS-240AB

##### Contemporary Design

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.

**Prerequisites** Take COS-111 COS-112

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#### COS-240BB

Contemporary Design

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.

**Prerequisites** Take COS-111 COS-112; COS-240AB;

**Class** 0.50, **Lab** 1.50, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### COS-271

Instructor Concepts I

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.

**Prerequisites** Current North Carolina Cosmetologist License and six months experience as a licensed cosmetologist is required.

**Corequisites** COS-272

**Class** 5.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 5.00

🕒 Last updated on Oct. 24, 2019, 9:02 a.m.

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#### COS-271AB

Instructor Concepts I Part A

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.

**Prerequisites** Current North Carolina Cosmetologist License and six months experience as a licensed cosmetologist is required.

**Corequisites** Take COS-272

**Class** 2.50, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.50

🕒 Last updated on Oct. 24, 2019, 9:02 a.m.

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#### COS-271BB

Instructor Concepts I Part B

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.

**Prerequisites** Take COS-271AB. Current North Carolina Cosmetologist License and six months experience as a licensed cosmetologist is required.

**Class** 2.50, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.50

🕒 Last updated on Oct. 24, 2019, 9:02 a.m.

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#### COS-272

Instructor Practicum I

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.

**Prerequisites** Current North Carolina Cosmetologist License and six months experience as a licensed cosmetologist is required.

**Corequisites** COS-271

**Class** 0.00, **Lab** 21.00, **Clinical** 0.00, **Work** 0.00, **SHC** 7.00

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COS-272AB

Instructor Practicum I Part A

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.

**Prerequisites** Current North Carolina Cosmetologist License and six months experience as a licensed cosmetologist is required.

**Corequisites** Take COS-271

**Class** 0.00, **Lab** 10.50, **Clinical** 0.00, **Work** 0.00, **SHC** 3.50

🕒 Last updated on Oct. 24, 2019, 9:03 a.m.

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COS-272BB

Instructor Practicum I Part B

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.

**Prerequisites** Take COS-272AB. Current North Carolina Cosmetologist License and six months experience as a licensed cosmetologist is required.

**Corequisites** Take COS-271

**Class** 0.00, **Lab** 10.50, **Clinical** 0.00, **Work** 0.00, **SHC** 3.50

🕒 Last updated on Oct. 24, 2019, 9:03 a.m.

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COS-273

Instructor Concepts II

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.

**Prerequisites** Take All: COS-271 and COS-272

**Corequisites** COS-274

**Class** 5.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 5.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-273AB

Instructor Concepts II Part A

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.

**Prerequisites** Take All: COS-271 and COS-272

**Corequisites** Take COS-274

**Class** 2.50, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.50

🕒 Last updated on June 28, 2019, 10:59 a.m.

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COS-273BB

Instructor Concepts II Part B

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.

**Prerequisites** Take All: COS-271 and COS-272 Take COS-273AB

**Corequisites** Take COS-274

**Class** 2.50, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.50

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### COS-274

Instructor Practicum II

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.

**Prerequisites** Take All: COS-271 and COS-272

**Corequisites** COS-273

**Class** 0.00, **Lab** 21.00, **Clinical** 0.00, **Work** 0.00, **SHC** 7.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### COS-274AB

Instructor Practicum II Part A

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.

**Prerequisites** Take All: COS-271 and COS-272

**Corequisites** Take COS-273

**Class** 0.00, **Lab** 10.50, **Clinical** 0.00, **Work** 0.00, **SHC** 3.50

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### COS-274BB

Instructor Practicum II Part B

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.

**Prerequisites** Take All: COS-274 and COS-272 Take COS-274AB

**Corequisites** Take COS-273

**Class** 0.00, **Lab** 10.50, **Clinical** 0.00, **Work** 0.00, **SHC** 3.50

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CSC

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### CSC-120

Computing Fundamentals I

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.

**Prerequisites** 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

**Class** 3.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### CSC-121

Python Programming



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.

**Prerequisites** Take CIS 115.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on Sept. 6, 2019, 1:35 p.m.

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#### CSC-130

##### Computing Fundamentals II

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.

**Prerequisites** Take CSC-120

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CSC-134

##### C++ Programming

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.

**Prerequisites** Take 3 groups; #Group 1 Take MAT-121 MAT-171 or DMA-010 through DMA-040; #Group 2 Take CTS-060; #Group 3 Take ENG-111 or DRE-098

**Corequisites** Take CIS-115 or ELN-133

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CSC-139

##### Visual BASIC Programming

This course introduces computer programming using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level.

**Prerequisites** Take CIS-115

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CSC-151

##### JAVA Programming

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.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### CSC-153

##### C# Programming

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, debug, and implement objects using the appropriate environment at the beginning level.



**Prerequisites** Take CIS-115

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

CSC-251

Advanced JAVA Programming

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.

**Prerequisites** Take CSC-151

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

CSC-253

Advanced C# Programming

This course is a continuation of CSC 153 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, debug, and implement objects using the appropriate environment.

**Prerequisites** Take CSC-153

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

CSC-284

Emerging Comp Prog Tech

This course provides students with the latest technologies and strategies in the field of Computer Programming. Emphasis is placed on the evaluation of developing Computer Programming Technologies and presenting those findings to the class. Upon completion, students should be able to critically analyze emerging Computer Programming Technologies and establish informed opinions.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## CST

CST-131

OSHA/Safety/Certification

This course covers the concepts of work site safety. Topics include OSHA regulations, tool safety, and certifications which relate to the construction industry. Upon completion, students should be able to identify and maintain a safe working environment based on OSHA regulations and maintain proper records and certifications.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

CST-241

Planning/Estimating I

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.

**Prerequisites** Take One: BPR-130, MAT-121, or MAT-171

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

# CTI

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## CTI-110

Web, Programming, and Database Foundation

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CTI-120

Network and Security Foundation

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CTI-130

Os and Device Foundation

This course covers the basic hardware and software of a personal computer, including installation, operations and interaction with popular microcomputer operating systems. Topics include components 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.

**Class 4.00, Lab 4.00, Clinical 0.00, Work 0.00, SHC 6.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## CTI-130AB

Os and Device Foundation

This course covers the basic hardware and software of a personal computer, including installation, operations and interaction with popular microcomputer operating systems. Topics include components 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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on March 25, 2020, 5:09 p.m.

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## CTI-130BB

Os and Device Foundation

This course covers the basic hardware and software of a personal computer, including installation, operations and interaction with popular microcomputer operating systems. Topics include components 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.

**Prerequisites** CTI-130AB

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on March 25, 2020, 5:23 p.m.

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## CTI-140

Virtualization Concepts

This course introduces operating system virtualization. Emphasis is placed on virtualization terminology, virtual machine storage, virtual networking and access control. Upon completion, students should be able to perform tasks related to installation, configuration and management of virtual machines.

**Prerequisites** Take CTI-120

**Class** 1.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## CTS

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CTS-115

Information Systems Business Concepts

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

CTS-130

Spreadsheet

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.

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

CTS-155

Tech Support Functions

This course introduces a variety of diagnostic and instructional tools that are used to evaluate the performance of technical support technologies. Emphasis is placed on technical support management techniques and support technologies. Upon completion, students should be able to determine the best technologies to support and solve actual technical support problems.

**Prerequisites** Take CTI-130

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

CTS-230

Advanced Spreadsheet

This course covers advanced spreadsheet design and development. Topics include advanced functions and statistics, charting, macros, databases, and linking. Upon completion, students should be able to demonstrate competence in designing complex spreadsheets.

**Prerequisites** Take CTS-130

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

CTS-240

Project Management

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.

**Prerequisites** Take One: CTI-140 or DBA-120

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

CTS-287

## Emerging Technologies

This course introduces emerging information technologies. Emphasis is placed on evolving technologies and trends in business and industry. Upon completion, students should be able to articulate an understanding of the current trends and issues in emerging technologies for information systems.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## DBA

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### DBA-110

#### Database Concepts

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.

**Prerequisites** Take CIS-110

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### DBA-120

#### Database Programming I

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.

**Prerequisites** Take DBA-110

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## DEN

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### DEN-100

#### Basic Orofacial Anatomy

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.

**Prerequisites** Enrollment in the Dental Assisting D45240 program.

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### DEN-101

#### Preclinical Procedures

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.

**Prerequisites** Enrollment in the Dental Assisting D45240 program.

**Class** 4.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 7.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### DEN-102

#### Dental Materials

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.

**Prerequisites** Enrollment in the Dental Assisting D45240 program.

**Class 2.00, Lab 4.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### DEN-103

Dental Sciences

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.

**Prerequisites** Enrollment in the Dental Assisting D45240 program.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### DEN-104

Dental Health Education

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.

**Prerequisites** Enrollment in the Dental Assisting D45240 program.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### DEN-105

Practice Management

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.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### DEN-106

Clinical Practice I

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.

**Prerequisites** Take DEN-101. Enrollment in the Dental Assisting D45240 program.

**Class 2.00, Lab 0.00, Clinical 12.00, Work 0.00, SHC 6.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### DEN-107

Clinical Practice II

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.

**Prerequisites** Take DEN-106. Enrollment in the Dental Assisting D45240 program.

**Class 1.00, Lab 0.00, Clinical 12.00, Work 0.00, SHC 5.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## DEN-111

### Infection/Hazard Control

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.

**Prerequisites** Enrollment in the Dental Assisting D45240 program.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## DEN-112

### Dental Radiography

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.

**Prerequisites** Enrollment in the Dental Assisting D45240 program.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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# DFT

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## DFT-111

### Technical Drafting I

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.

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 19, 2020, 1:33 p.m.

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## DFT-112

### Technical Drafting II

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.

**Prerequisites** Take DFT-111

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 19, 2020, 1:33 p.m.

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## DFT-121

### Introduction to GD&T

This course introduces basic geometric dimensioning and tolerancing principles. Topics include symbols, annotation, theory, and applications. Upon completion, students should be able to interpret and apply basic geometric dimensioning and tolerancing principles to drawings.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## DFT-151

### CAD I

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.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### DFT-154

#### Intro to Solid Modeling

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.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### DFT-170

#### Engineering Graphics

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### DFT-254

#### Intermediate Solid Modeling & Rendering

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.

**Prerequisites** Take DFT-154

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## DRA

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### DRA-111

#### Theatre Appreciation

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### DRA-126

#### Storytelling

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## ECM

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### ECM-210

#### Introduction to E-Commerce



This course introduces the concepts and tools to implement electronic commerce via the Internet. Topics include application and server software selection, securing transactions, use and verification of credit cards, publishing of catalogs, and site administration. Upon completion, students should be able to setup a working e-commerce Internet web site.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## ECO

### ECO-151

#### Survey of Economics

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### ECO-251

#### Principles of Microeconomics

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### ECO-252

#### Principles of Macroeconomics

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## EDU

### EDU-119

#### Introduction to Early Childhood Education

This course introduces the foundations of early childhood education, the diverse educational settings for young children, professionalism and planning intentionally developmentally appropriate experiences for each child. 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, and curriculum responsive to the needs of each child/family. Upon completion, students should be able to design a career/professional development plan, and appropriate environments, schedules, and activity plans.

**Class 4.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### EDU-131



#### Child, Family, and Community

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.

**Corequisites** Take One: DRE-097, ENG-002, or ENG-111

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-144

##### Child Development I

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.

**Corequisites** Take DRE-097

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-145

##### Child Development II

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.

**Corequisites** Take DRE-097

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-146

##### Child Guidance

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.

**Corequisites** Take DRE-097

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-151

##### Creative Activities

This course introduces developmentally supportive creative learning environments with attention to divergent thinking, creative problem-solving, evidence-based teaching practices, and open-ended learning materials while applying NC Foundations for Early Learning and Development. Emphasis is placed on observation of process driven learning experiences

in art, music, creative movement, dance, and dramatics for every young child age birth through eight, integrated through all domains and academic content. Upon completion, students should be able to examine, create, and adapt developmentally creative learning materials, experiences, and environments for children that are culturally, linguistically, and ability diverse.

**Corequisites** Take DRE-097

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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EDU-153

Health, Safety and Nutrition

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.

**Corequisites** Take DRE-097

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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EDU-162

Observation and Assessment in Early Childhood Education

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 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.

**Corequisites** DRE-097

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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EDU-214

Early Childhood Intermediate Practicum

This course is designed to allow students to apply skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children and assisting with the implementation of developmentally appropriate activities and environments for all children; modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

**Prerequisites** Take one set: Set 1: EDU-119, EDU-144, and EDU-146 Set 2: PSY-244, EDU-119, and EDU-146

**Corequisites** Take DRE-098

**Class 1.00, Lab 9.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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EDU-216

Foundations of Education

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.

**Corequisites** Take DRE-098

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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EDU-221

Children With Exceptionalities

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.

**Prerequisites** Take one set: Set 1: EDU-144, EDU-145 Set 2: PSY-244 PSY-245

**Corequisites** Take DRE-098

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-234

Infants, Toddlers, & Twos

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, 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 responsive 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.

**Prerequisites** Take EDU-119

**Corequisites** Take DRE-098

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-235

School-Age Development and Programs

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.

**Corequisites** Take DRE-098

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-247

Sensory and Physical Disabilities

This course covers characteristics, intervention strategies, assistive technologies, and inclusive practices for children with sensory and physical disabilities. Topics include inclusive placement options, utilization of support services, other health impairments and family involvement for children with sensory and physical disabilities. Upon completion, students should be able to identify and utilize intervention strategies and service delivery options for those specific disabilities.

**Prerequisites** Take one set: Set 1: EDU-144 and EDU-145 Set 2: PSY-244 and PSY-245

**Corequisites** Take DRE-098

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-248

Developmental Delays

This course covers the causes and assessment of developmental delays and individualized instruction and curriculum for children with developmental delays. Emphasis is placed on definition, characteristics, assessment, educational strategies, inclusion, family involvement, and services for children with developmental delays. Upon completion, students should be able to identify, assess, and plan educational intervention strategies for children with developmental delays and their families.

**Prerequisites** Take One Set: Set 1: EDU-144 and EDU-145; Set 2: PSY-244 and PSY-245

**Corequisites** Take DRE-098.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-250

Teacher Licensure Preparation

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.

**Prerequisites** Take One Set: Set 1: ENG 111 and MAT 143; Set 2: ENG 111 and MAT 152; Set 3: ENG 111 and MAT 171

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on Feb. 24, 2020, 6:55 p.m.

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#### EDU-251

Exploration Activities

This course covers fundamental concepts in the content areas of science, technology, engineering, math and social studies through investigative experiences. Emphasis is placed on exploring fundamental concepts, developmentally appropriate scope and sequence, and teaching strategies to engage each child in the discovery approach. Upon completion, students should be able to understand major concepts in each content area and implement appropriate experiences for young children.

**Corequisites** Take DRE-098

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-254

Music and Movement for Children

This course covers the use of music and creative movement for children. Topics include a general survey of the basic elements of music and planning, designing, and implementing music and movement experiences for creative learning. Upon completion, students should be able to use voice and various musical instruments to provide musical and movement activities for children.

**Corequisites** Take DRE-098

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EDU-259

Curriculum Planning

This course is designed to focus on using content knowledge to build developmentally effective approaches for culturally/linguistically/ability diverse young children. Topics include components of curriculum, a variety of curriculum models, authentic observation and assessment, and planning developmentally appropriate experiences aligned with the NC Foundations for Early Learning and Development. Upon completion, students should be able to understand, evaluate, and use curriculum to plan for individual/group needs.

**Prerequisites** Take EDU-119

**Corequisites** Take DRE-098

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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#### EDU-261

Early Childhood Administration I

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.

**Corequisites** Take All: DRE-098 and EDU-119.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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EDU-262

Early Childhood Administration II

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.

**Prerequisites** Take All: DRE-098, EDU-119 and EDU-261.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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EDU-280

Language/Literacy Experiences

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.

**Corequisites** Take DRE-098

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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EDU-282

Early Childhood Literature

This course covers the history, selection, and integration of literature and language in the early childhood curriculum. Topics include the history and selection of developmentally appropriate children's literature and the use of books and other media to enhance language and literacy in the classroom. Upon completion, students should be able to select appropriate books for storytelling, reading aloud, puppetry, flannel board use, and other techniques for children who are culturally, linguistically, and ability diverse.

**Corequisites** Take DRE-098

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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EDU-284

Early Childhood Capstone Practicum

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.

**Prerequisites** 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, PSY-245, EDU-144, EDU-146, and EDU-151 Set 4: EDU-119, PSY-244, EDU-145, EDU-146, and EDU-151

**Corequisites** Take DRE-098

**Class 1.00, Lab 9.00, Clinical 0.00, Work 0.00, SHC 4.00**

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# EGR

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## EGR-110

### Intro to Engineering Tech

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.

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

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## EGR-125

### Appl Software for Tech

This course introduces personal computer software and teaches students how to customize the software for technical applications. Emphasis is placed on the use of common office applications software programs such as spreadsheets, word processing, graphics, and internet access. Upon completion, students should be able to demonstrate competency in using applications software to solve technical problems and communicate the results in text and graphical formats.

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

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## EGR-150

### Introduction to Engineering

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.

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

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## EGR-220

### Engineering Statics

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.

**Prerequisites** Take PHY 251

**Corequisites** Take MAT 272

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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## EGR-228

### Intro to Solid Mechanics

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.

**Prerequisites** Take EGR 220

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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## EGR-251

### Statics

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.



**Prerequisites** Take MAT-121 or MAT-171

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

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EGR-252

Strength of Materials

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.

**Prerequisites** Take EGR-251

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

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## ELC

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ELC-111

Introduction to Electricity

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

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ELC-112

DC/AC Electricity

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.

**Class 3.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 5.00**

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ELC-113

Residential Wiring

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.

**Corequisites** ELC-118

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

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ELC-115

Industrial Wiring

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.

**Prerequisites** Take ELC-113

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

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ELC-117

Motors and Controls

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.

**Corequisites** Take ELC-125.

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

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#### ELC-118

##### National Electrical Code

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.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

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#### ELC-119

##### NEC Calculations

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.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

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#### ELC-125

##### Diagrams and Schematics

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.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

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#### ELC-126

##### Electrical Computations

This course introduces the fundamental applications of mathematics which are used by an electrical/electronics technician. Topics include whole numbers, fractions, decimals, powers, roots, simple electrical formulas, and usage of a scientific calculator. Upon completion, students should be able to solve simple electrical mathematical problems.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

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#### ELC-128

##### Introduction to Programmable Logic Controller

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.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

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#### ELC-130

##### Advanced Motors/Controls

This course covers motors concepts, construction and characteristics and provides a foundation in motor controls. Topics include motor control ladder logic, starters, timers, overload protection, braking, reduced voltage starting, SCR control, AC/DC drives, system and component level troubleshooting. Upon completion, students should be able to specify, connect, control, troubleshoot, and maintain motors and motor control systems.

**Prerequisites** Take One: ELC-111, ELC-112, ELC-131, or ELC-138

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### ELC-138

#### DC Circuit Analysis

This course introduces DC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, and analyze DC circuits; and properly use test equipment.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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### ELC-139

#### AC Circuit Analysis

This course introduces AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include AC voltages, circuit analysis laws and theorems, reactive components and circuits, transformers, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret AC circuit schematics; analyze and troubleshoot AC circuits; and properly use test equipment.

**Prerequisites** Take ELC-138.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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### ELC-213

#### Instrumentation

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.

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

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### ELC-215

#### Electrical Maintenance

This course introduces the theory of maintenance and the skills necessary to maintain electrical equipment found in industrial and commercial facilities. Topics include maintenance theory, predictive and preventive maintenance, electrical equipment operation and maintenance, and maintenance documentation. Upon completion, students should be able to perform maintenance on electrical equipment in industrial and commercial facilities.

**Prerequisites** Take ELC-117;

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

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## ELN

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### ELN-131

#### Analog Electronics I

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.

**Corequisites** ELC-139

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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### ELN-132

#### Analog Electronics II

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.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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ELN-133

Digital Electronics

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.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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ELN-150

Computer-Aided Drafting for Electronics

This course introduces computer-aided drafting (CAD) with an emphasis on applications in the electronics field. Topics include electronics industry standards (symbols, schematic diagrams, layouts); drawing electronic circuit diagrams; and specialized electronic drafting practices and components such as resistors, capacitors, and ICs. Upon completion, students should be able to prepare electronic drawings with CAD software.

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

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ELN-232

Introduction to Microprocessors

This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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ELN-234

Communication Systems

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.

**Prerequisites** Take ELN-131;

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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ELN-260

Prog Logic Controllers

This course provides a detailed study of PLC applications, with a focus on design of industrial controls using the PLC. Topics include PLC components, memory organization, math instructions, documentation, input/output devices, and applying PLCs in industrial control systems. Upon completion, students should be able to select and program a PLC system to perform a wide variety of industrial control functions.

**Prerequisites** Take ELC-128.

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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## EMS

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EMS-110

EMT

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.

**Class 6.00, Lab 6.00, Clinical 3.00, Work 0.00, SHC 9.00**

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#### EMS-122

##### EMS Clinical Practicum I

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.

**Prerequisites** Take EMS-110

**Corequisites** Take EMS-130

**Class 0.00, Lab 0.00, Clinical 3.00, Work 0.00, SHC 1.00**

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#### EMS-125

##### EMS Instructor Methodology

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

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#### EMS-130

##### Pharmacology

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.

**Prerequisites** Take EMS-110

**Class 3.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 4.00**

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#### EMS-131

##### Advanced Airway Management

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.

**Prerequisites** Take EMS-110

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

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#### EMS-140

##### Rescue Scene Management

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.

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

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#### EMS-140A

##### Rescue Scene Skills Lab

This course is designed to provide enhanced rescue scene skills for EMS providers. Emphasis is placed on advanced rescue scene evolutions including hazardous materials and major incident response. Upon completion, students should be able to demonstrate skills necessary to safely effect patients rescue in a variety of situations.

**Corequisites** EMS-140

**Class 0.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 1.00**

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### EMS-150

#### Emergency Vehicles and EMS Communication

This course covers the principles governing emergency vehicles, maintenance of emergency vehicles, and EMS communication equipment. Topics include applicable motor vehicle laws affecting emergency vehicle operation, defensive driving, collision avoidance techniques, communication systems, and information management systems. Upon completion, students should have a basic knowledge of emergency vehicles, maintenance, and communication needs.

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

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### EMS-160

#### Cardiology I

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..

**Prerequisites** Take EMS-110

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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### EMS-220

#### Cardiology II

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.

**Prerequisites** Take All: EMS-122, EMS-130, and EMS-160

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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### EMS-221

#### EMS Clinical Practicum II

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

**Prerequisites** Take One: EMS-121 or EMS-122

**Class** 0.00, **Lab** 0.00, **Clinical** 6.00, **Work** 0.00, **SHC** 2.00

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### EMS-231

#### EMS Clinical Practicum III

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.

**Prerequisites** Take EMS-221

**Class** 0.00, **Lab** 0.00, **Clinical** 9.00, **Work** 0.00, **SHC** 3.00

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### EMS-235

#### EMS Management

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.

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

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### EMS-240

#### Patients with Special Challenges

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.

**Prerequisites** Take All: EMS-122 and EMS-130

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EMS-241

EMS Clinical Practicum IV

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..

**Prerequisites** Take EMS-231

**Class** 0.00, **Lab** 0.00, **Clinical** 12.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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EMS-250

Medical Emergencies

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.

**Prerequisites** Take All: EMS-122 and EMS-130

**Class** 3.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

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EMS-260

Trauma Emergencies

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.

**Prerequisites** Take All: EMS-122 and EMS-130

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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EMS-270

Life Span Emergencies

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.

**Prerequisites** Take All: EMS-122 and EMS-130

**Class** 3.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

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EMS-280

EMS Bridging Course

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.

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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EMS-285

EMS Capstone

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.

**Prerequisites** Take All: EMS-220, EMS-250, and EMS-260

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

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## ENG

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ENG-002

Transition English

This course provides an opportunity to customize foundational English content in specific areas and will include developing a growth mindset. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in college-level English. Upon completion, students should be able to build a stronger foundation for success in their gateway level English courses by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

**Class** 0.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

ENG-011

Writing and Inquiry Support

This course provides an opportunity to supplement the skills introduced in Writing and Inquiry. Topics include developing the necessary skills to edit and revise components of the writing process. Upon completion, students should be able to write in a variety of genres and formats using a recursive process, and effective use of rhetorical strategies, with emphasis placed on the editing and revision components of the writing process.

**Corequisites** Take ENG 111

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

ENG-102

Applied Communications II

This course is designed to enhance writing and speaking skills for the workplace. Emphasis is placed on generating short writings such as job application documents, memoranda, and reports and developing interpersonal communication skills with employees and the public. Upon completion, students should be able to prepare effective, short, and job-related written and oral communications.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

ENG-111

Writing and Inquiry

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take ENG-002 with a grade of P2 or BSP-4002 with a grade of P2

**Corequisites** ENG 011 (mandatory for students with an unweighted high school GPA between 2.2 and 2.799, and for students who still require credit for DRE 098; optional for all other students)

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### ENG-112

#### Writing and Research in the Disciplines

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.

**Prerequisites** Take ENG-111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-113

#### Literature-Based Research

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.

**Prerequisites** Take ENG-111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-114

#### Professional Research & Reporting

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.

**Prerequisites** Take ENG-111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-125

#### Creative Writing I

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.

**Prerequisites** Take ENG-111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-126

#### Creative Writing II

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.

**Prerequisites** Take ENG-125

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-131

#### Introduction to Literature

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.



**Prerequisites** Take ENG-111

**Corequisites** Take One: ENG-112, ENG-113, or ENG-114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-231

American Literature I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take One: ENG-112, ENG 113, or ENG 114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-232

American Literature II

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take One: ENG-112, ENG-113, or ENG-114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-241

British Literature I

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.

**Prerequisites** Take ENG-112, ENG-113, or ENG-114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-242

British Literature II

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.

**Prerequisites** Take One: ENG-112, ENG-113, or ENG-114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ENG-261

World Literature I

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.

**Prerequisites** Take One: ENG-112, ENG-113, or ENG-114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00



### ENG-262

#### World Literature II

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.

**Prerequisites** Take One: ENG-112, ENG-113, or ENG-114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### ENG-272

#### Southern Literature

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.

**Prerequisites** Take One: ENG-112, ENG-113, or ENG-114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### ENG-273

#### African-American Literature

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.

**Prerequisites** Take One: ENG-112, ENG-113, or ENG-114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### ENG-274

#### Literature by Women

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.

**Prerequisites** Take One: ENG-112, ENG-113, or ENG-114

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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## EPT

### EPT-120

#### Sociology of Disaster

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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### EPT-124

#### EM Services Law & Ethics

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EPT-130

##### Mitigation & Preparedness

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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#### EPT-140

##### Emergency Management

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EPT-150

##### Incident Management

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EPT-210

##### Response & Recovery

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EPT-220

##### Terrorism and Emergency Management

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### EPT-225

##### Hazard Analysis/Risk Assessment

This course covers the probability and frequency of hazards, level of hazard exposure, and the effect or cost, both direct and indirect, of this exposure. Topics include identifying and characterizing hazards, evaluating hazard severity and frequency, estimating risks, and determining potential societal and economic effects. Upon completion, students should be able to identify the potential hazards and risks within a community.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### EPT-230

#### Emergency Planning

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### EPT-260

#### Business Continuity

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### EPT-275

#### Emergency Operations Center Management

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## ETR

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### ETR-210

#### Introduction to Entrepreneurship

This course provides a survey of the starting and operating of an entrepreneurial venture. Topics include new venture creation, the business plan, economics of the business, determining resource needs and acquiring resources, marketing, technology, leadership skills, and business ethics. Upon completion, students should be able to demonstrate an understanding of entrepreneurship concepts and how to use the entrepreneurial mindset to succeed in their careers.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### ETR-220

#### Innovation and Creativity

This course provides a study of developing and enhancing individual and organizational creativity and innovation. Topics include that innovation needs to be applied to products, services, and processes to increase competitive advantages and add value to businesses. Upon completion, students should be able to apply innovation and creativity principles in the work place.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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## FIP

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### FIP-120

#### Introduction to Fire Protection

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-124

##### Fire Prevention & Public Education

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-128

##### Detection and Investigation

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-132

##### Building Construction

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-136

##### Inspections and Codes

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-140

##### Industrial Fire Protection

This course covers fire protection systems in industrial facilities referenced in NFPA standard 1. Topics include applicable health and safety standards, insurance carrier regulations, other regulatory agencies, hazards of local industries, fire brigade operation, and loss prevention programs. Upon completion, students should be able to plan and evaluation an industrial facility's fire protection program.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-146

##### Fire Protection Systems

This course introduces various types of automatic sprinklers, standpipes, fire alarm systems, and fixed and portable extinguishing systems referenced in NFPA standard 25, including their operation, installation, and maintenance. Topics include wet and dry systems, testing and maintenance, water supply requirements, fire detection and alarm systems, including application, testing, and maintenance of Halon, carbon dioxide, dry chemical, and special extinguishing agents utilized in fixed and portable systems. Upon completion, students should be able to demonstrate a working knowledge of sprinkler and alarm systems, both fixed and portable, including appropriate application, operation, inspection, and maintenance requirements.

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-152

Fire Protection Law

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-162

Firefighter Safety & Wellness

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-164

OSHA Standards

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-176

HazMat: Operations

This course is designed to increase first responder awareness of the type, nature, physiological effects of, and defensive techniques for mitigation of HazMat incidents. Topics include recognition, identification, regulations and standards, zoning, resource usage, defensive operations, and other related topics. Upon completion, students should be able to recognize and identify the presence of hazardous materials and use proper defensive techniques for incident mitigation.

**Class 4.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-180

Wildland Fire Behavior

This course covers the principles of wildland fire behavior and meteorology referenced in NFPA standard 1143. Emphasis is placed on fire calculations, fuels, and related weather effects. Upon completion, students should be able to demonstrate and apply fire behavior theories through written and performance evaluations.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-184

Wildland Fire Safety

This course covers safety principles used when working in the wildland fire environment referenced in NFPA standard 1143. Emphasis is placed on personal safety and working with equipment, aircraft, and fire-ground operations. Upon completion, students should be able to understand and demonstrate fire safety procedures through written and performance evaluations.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-220

##### Fire Fighting Strategies

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-221

##### Advanced Fire Fighting Strategies

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.

**Prerequisites** Take FIP-220

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-224

##### Fire Instructor I & II

This course covers the knowledge, skills, and abilities needed to train others in fire service operations. Topics include planning, presenting, and evaluating lesson plans, learning styles, use of media, communication, and other related topics. Upon completion, students should be able to meet the requirements of the Fire Instructor I and II objectives from National Fire Protection Association (NFPA) 1041.

**Class 4.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-226

##### Fire Officer I & II

This course covers the knowledge, skills, and requirements referenced in the National Fire Protection Association (NFPA) Standard 1021 for Fire Officer I and II training. Topics include officer roles and responsibilities, budgets, fire cause determination, inspections, education, leadership, management, public relations, and other requirements included in the NFPA standard. Upon completion, students should be able to demonstrate an understanding of relevant NFPA standards as required for state Fire Officer I and II certification.

**Class 4.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-228

##### Local Government Finance

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-229

##### Fire Dynamics and Combustion

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-230



#### Chemistry of Hazardous Materials I

This course covers the evaluation of hazardous materials referenced in NFPA standard 1072. Topics include use of the periodic table, hydrocarbon derivatives, placards and labels, parameters of combustion, and spill and leak mitigation. Upon completion, students should be able to demonstrate knowledge of the chemical behavior of hazardous materials.

**Class 5.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 5.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-232

##### Hydraulics and Water Distribution

This course covers the flow of fluids through fire hoses, nozzles, appliances, pumps, standpipes, water mains, and other devices reference in NFPA standard 25. Emphasis is placed on supply and delivery systems, fire flow testing, hydraulic calculations, and other related topics. Upon completion, students should be able to perform hydraulic calculations, conduct water availability tests, and demonstrate knowledge of water distribution systems.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-240

##### Fire Service Supervision

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-248

##### Fire Service Personnel Administration

This course covers the basics of setting up and administering the personnel functions of fire protection organizations referenced in NFPA standard 1021. Emphasis is placed on human resource planning, classification and job analysis, equal opportunity employment, affirmative action, recruitment, retention, development, performance evaluation, and assessment centers. Upon completion, students should be able to demonstrate knowledge of the personnel function as it relates to managing fire protection.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-256

##### Municipal Public Relations

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-276

##### Managing Fire Services

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### FIP-277

##### Fire and Social Behavior

This course covers fire-related aspects of human behavior, with an emphasis on research and a systems approach to human-behavior analysis. Topics include identification of populations and structures at high risk, evaluation of systems models, and use of computer models to predict human behavior during fires. Upon completion, students should be able to identify and

anticipate human behavior in response to various residential, commercial, board-and-care facility, and wildland/rural fire events.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## FRE

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FRE-111

Elementary French I

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

FRE-112

Elementary French II

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.

**Prerequisites** Take FRE-111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## GEO

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GEO-111

World Regional Geography

This course introduces the regional concept which emphasizes the spatial association of people and their environment. Emphasis is placed on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

GEO-112

Cultural Geography

This course is designed to explore the diversity of human cultures and to describe their shared characteristics. Emphasis is placed on the characteristics, distribution, and complexity of earth's cultural patterns. Upon completion, students should be able to demonstrate an understanding of the differences and similarities in human cultural groups.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

GEO-130

General Physical Geography

This course introduces both the basic physical components that help shape the earth and the study of minerals, rocks, and evolution of landforms. Emphasis is placed on the geographic grid, cartography, weather, climate, mineral composition, fluvial processes, and erosion and deposition. Upon completion, students should be able to identify these components and processes and explain how they interact.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.



## GIS

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GIS-212

GIS/GPS Applications

This course provides experience in operational and management issues in designing and implementing GIS/GPSs for use in planning, management, analysis, and locational decision making. Topics include applications in municipal, industrial, and service sectors and the associated planning, legal, national, and global issues with a project emphasizing the student's specialization. Upon completion, students should be able to design and apply GIS/GPS technologies to solve practical problems.

**Class** 4.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 6.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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GIS-252

Utilities in GIS

The student will gain an understanding of utilizing GIS for utilities applications. Topics include the theory and implementation of GIS networks effectively in real world utility scenarios. Upon completion, students should be able to demonstrate an understanding of the fundamentals of utility mapping, including the use of correct terminology and symbology.

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## GRD

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GRD-110

Typography I

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.

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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GRD-113

History of Graphic Design

This course covers the history of graphic design and visual communications. Topics include major trends, developments, influences, and directions. Upon completion, students should be able to understand, recognize, and analyze important historical and world-wide cultural influences found in today's marketing of ideas and products.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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GRD-117

Design Career Exploration

This course covers opportunities in the graphic design field and employment requirements. Topics include evaluation of career choices, operations, structure of advertising and graphic design businesses, and related business issues. Upon completion, students should be able to demonstrate an understanding of the graphic design field and consider an appropriate personal direction of career specialization.

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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GRD-131

Illustration I

This course introduces the application of rendering techniques to create illustrations. Emphasis is placed on controlling various media, methods, surfaces, design problems, and the appropriate media selection process. Upon completion, students should be able to produce quality illustrations from conception through finished artwork.

**Prerequisites** Take One: ART-131, DES-125, or GRD-121

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

### GRD-132

#### Illustration II

This course is a continuation of GRD 131. Topics include editorial, product, fashion, and advertising illustrations. Upon completion, students should be able to demonstrate increased proficiency in creating quality illustrations from conceptualization through finished artwork.

**Prerequisites** Take GRD-131

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### GRD-141

#### Graphic Design I

This course introduces the conceptualization process used in visual problem solving. Emphasis is placed on learning the principles of design and on the manipulation and organization of elements. Upon completion, students should be able to apply design principles and visual elements to projects

**Class** 2.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### GRD-142

#### Graphic Design II

This course covers the application of visual elements and design principles in advertising and graphic design. Topics include creation of various design, such as logos, advertisements, posters, outdoor advertising, and publication design. Upon completion, students should be able to effectively apply design principles and visual elements to projects.

**Prerequisites** Take One: ART-121, DES-135, or GRD-141.

**Class** 2.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### GRD-151

#### Computer Design Basics

This course covers designing and drawing with various types of software applications for advertising and graphic design. Emphasis is placed on creative and imaginative use of space, shapes, value, texture, color, and typography to provide effective solutions to advertising and graphic design problems. Upon completion, students should be able to use the computer as a creative tool.

**Class** 1.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### GRD-152

#### Computer Design Tech I

This course covers complex design problems utilizing various design and drawing software applications. Topics include the expressive use of typography, image, and organization to communicate a message. Upon completion, students should be able to use appropriate computer software to professionally present their work.

**Prerequisites** Take GRD-151

**Class** 1.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### GRD-170

#### Exhibit Design

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 in both exhibit designs and commercial displays.

**Prerequisites** Take GRD-141

**Class** 1.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### GRD-241

### Graphic Design III

This course is an advanced exploration of various techniques and media for advertising and 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.

**Prerequisites** Take One: DES-136 or GRD-142

**Class** 2.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### GRD-265

#### Digital Print Production

This course covers preparation of digital files for output and reproduction. Emphasis is placed on output options, separations, color proofing, and cost and design considerations. Upon completion, students should be able to prepare files and select appropriate output methods for design solutions.

**Prerequisites** Take One: GRD-151 or GRA-151

**Class** 1.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### GRD-280

#### Portfolio Design

This course covers the organization and presentation of a design/advertising or graphic art 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.

**Prerequisites** Take One Set: Set 1: GRD-142 and GRD-152 Set 2: GRD-142 and GRA-152

**Class** 2.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### GRD-281

#### Design of Advertising

This course explores the origins, roles, scope, forms, and development of advertising. Emphasis is placed on advertising development from idea through production and the interrelationship of marketing to types of advertising, media, and organizational structure. Upon completion, students should be able to produce advertising for various media and demonstrate an understanding of the complexities and relationships involved in advertising design.

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## HEA

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### HEA-110

#### Personal Health/Wellness

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## HIS

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### HIS-111

#### World Civilizations I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take ENG-002 OR ENG-111

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### HIS-112

##### World Civilizations II

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take ENG 002 OR ENG 111

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### HIS-122

##### Western Civilization II

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.

**Prerequisites** Take ENG 002 OR ENG 111

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### HIS-131

##### American History I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take ENG 002 OR ENG 111

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### HIS-132

##### American History II

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take ENG 002 OR ENG 111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### HIS-163

#### The World Since 1945

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.

**Prerequisites** Take ENG 002 OR ENG 111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### HIS-221

#### African-American History

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.

**Prerequisites** Take ENG-002 or ENG-111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### HIS-226

#### The Civil War

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.

**Prerequisites** Take ENG 002 OR ENG 111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### HIS-236

#### North Carolina History

This course is a study of geographical, political, economic, and social conditions existing in North Carolina from America's discovery to the present. Topics include native and immigrant backgrounds; colonial, antebellum, and Reconstruction periods; party politics; race relations; and the transition from an agrarian to an industrial economy. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in North Carolina.

**Prerequisites** Take ENG 002 OR ENG 111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## HMT

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### HMT-110

#### Intro to Healthcare Mgt

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## HSC

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### HSC-120

#### CPR

This course covers the basic knowledge and skills for the performance of infant, child, and adult CPR and the management of foreign body airway obstruction. Emphasis is placed on recognition, assessment, and proper management of emergency care. Upon completion, students should be able to perform infant, child, and adult CPR and manage foreign body airway obstructions.

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## HSE

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### HSE-245

#### Stress Management

This course covers stressors and techniques for stress management. Topics include anger, assertiveness, breathing, change, coping skills, family, time management, meditation, guided imagery, and journaling. Upon completion, students should be able to identify areas of stress and the skills and management techniques for dealing with stressors.

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## HUM

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### HUM-110

#### Technology and Society

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### HUM-115

#### Critical Thinking

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.

**Prerequisites** Take One: DRE-098, ENG-002, BSP-4002, or ENG-111

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on Sept. 27, 2019, 3:56 p.m.

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## HUM-120

### Cultural Studies

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## HUM-122

### Southern Culture

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## HUM-130

### Myth in Human Culture

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## HUM-170

### The Holocaust

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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# HYD

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## HYD-110

### Hydraulics/Pneumatics I

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.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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# INS

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## INS-121

### Life Insurance

This course is designed to follow the guidelines set forth by the North Carolina Department of Insurance to prepare an individual for the life agent state licensing exam. Topics include basic principles of life insurance, life insurance policies, provisions, options, riders, premiums, proceeds, beneficiaries, insurance underwriting, policy issues, and North Carolina Statutes and Regulations. Upon completion, students should be able to demonstrate a thorough knowledge of North Carolina Department of Insurance requirements for life insurance and be prepared to sit for the state life agent licensing exam.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### INS-122

##### Accident and Health Insurance

This course is designed to follow the guidelines set forth by the North Carolina Department of Insurance to prepare an individual for the accident and health agent insurance state licensing exam. Topics include basic principles of accident and health insurance, health insurance providers, medical expense insurance, accidental death & dismemberment, and accident and health insurance policy provisions. Upon completion, students should be able to demonstrate a thorough knowledge of North Carolina Department of Insurance requirements and be prepared to sit for the state accident and health agent licensing exam.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### INS-125

##### Risk Management

This course introduces the fundamentals of risk management as it applies to individuals and businesses. Topics include risk and hazard recognition and measurement, risk analysis and the development of a risk management plan. Upon completion, students should be able to identify the daily managerial and organizational requirements of risk management.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### INS-127

##### Claims Adjusting

This course introduces the legal basis of contracts and claims. Topics will include basic principles of claims adjusting; terms and concepts; dwelling property forms; fire policies; home owners and other personal policies; flood insurance; watercraft and auto policies; umbrella liability, loss/damage evaluation; loss reports; and North Carolina Statutes and Regulations. Upon completion, students should be able to demonstrate the ability to investigate and legally settle claims.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### INS-128

##### Med Sup/Long-Term/Estate Plan

This course is designed to follow the guidelines set forth by the North Carolina Department of Insurance to prepare an individual for the Medicare Supplement/Long-Term Care Agent. Topics include principles of long-term care, long-term coverage, applicable laws and regulations, Medicaid, Medicare supplement insurance/assistance, hospital insurance, supplementary medical insurance, and estate planning. Upon completion, students should be able to identify and effectively discuss long-term care coverage, appropriate policy provisions, legal practices, estate planning, and their applicable taxes.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## INT

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#### INT-110

##### International Business

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### INT-210

##### International Trade



This course covers international business trade practices and foreign market research. Emphasis is placed on current trends of US trade practices in foreign countries and how to engage in international trade and acquire foreign marketing information. Upon completion, students should be able to formulate an overall product policy for the international marketplace.

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**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

INT-230

International Law

This course is designed to develop an understanding of the different theories on international law and their effect on international trade. Emphasis is placed on concepts of contracts, international transactions, major organizations in international trade, establishment of treaties, economic areas, and US laws affecting international trade. Upon completion, students should be able to apply theories and concepts to international trade and transactions.

**Prerequisites** Take BUS-115

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## ISC

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ISC-112

Industrial Safety

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.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ISC-113

Industrial Specifications

This course introduces industrial specifications. Emphasis is placed on using machinist reference materials. Upon completion, students should be able to use and interpret charts and data found in reference materials.

**Class 1.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ISC-132

Manufacturing Quality Control

This course introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools. Upon completion, students should be able to demonstrate an understanding of the concepts and principles of quality and apply them to the work environment.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ISC-135

Principles of Industrial Management

This course covers the managerial principles and practices required for organizations to succeed in modern industry, including quality and productivity improvement. Topics include the functions and roles of all levels of the management, organization design, planning and control of manufacturing operation, managing conflict, group dynamics, and problem solving skills. Upon completion, students should be able to demonstrate an understanding of management principles and integrate these principles into job situations.

**Class 4.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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ISC-136

Productivity Analysis I

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.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

#### ISC-214

##### Job Analysis/Wages & Salary

This course covers job analysis and evaluation as a basis for determining equitable wages and salaries. Topics include selection and definition of job factors, relative values of factors, preparation of job specifications and descriptions, and determination of wage/salary structure. Upon completion, students should be able to prepare job specifications and descriptions, evaluate jobs by four commonly accepted methods, and calculate costs of wage curves.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

#### ISC-220

##### Lean Manufacturing

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

#### ISC-225

##### Facility Layout

This course provides a practical study of facility planning with emphasis on a structured approach to solving layout problems. Emphasis is placed on investigating and designing an effective facility layout. Upon completion, students should be able to design a basic work area indicating effective use of allowable resources.

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

#### ISC-243

##### Production and Operations Management I

This course introduces concepts used to analyze and solve productivity and operational problems. Topics include operations strategy, forecasting, resource allocation, and materials management. Upon completion, students should be able to recognize, analyze, and solve a variety of productivity and operational problems.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

#### ISC-255

##### Engineering Economy

This course covers the process of economic evaluation of manufacturing industrial alternatives such as equipment selection, replacement studies, and cost reduction proposals. Topics include discounted cash flows, time value of money, income tax considerations, internal rates of return, and comparison of alternatives using computer programs. Upon completion, students should be able to analyze complex manufacturing alternatives based on engineering economy principles.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## LDD

#### LDD-112

##### Intro Light-Duty Diesel

This course covers the history, evolution, basic design and operational parameters for light-duty diesel (LDD) engines used in on-road applications. Topics include familiarization with the light-duty diesel, safety procedures, engine service and maintenance procedures, and introduction to combustion and emission chemistry. Upon completion, students should be able to describe the design and operation of the LDD, perform basic service operations, and demonstrate proper safety procedures.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### LDD-116

#### Diesel Electric-Drive

This course covers the theory and operation of electric-drive diesel vehicles. Topics include maintenance, diagnosis, repair and safety procedures for electrically propelled and hybrid diesel vehicles. Upon completion, students should be able to perform diagnostics, maintenance and repairs on electric and hybrid diesel vehicles.

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### LDD-181

#### LDD Fuel Systems

This course covers the light-duty diesel fuel delivery systems in on-road applications including hydraulic electronically controlled unit injectors, common-rail, mechanical pumps, and emerging technologies. Topics include diesel combustion theory, fuel system components, electronic and mechanical controls, and fuel types and chemistries that are common to the light-duty diesel engines. Upon completion, students should be able to demonstrate skills necessary to inspect, test, and replace fuel delivery components using appropriate service information and tools.

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### LDD-183

#### Air, Exhaust, Emissions

This course covers terminology, theory and operation of air induction and boost technologies, exhaust, and emission controls used in light-duty diesel engines. Topics include component identification, operation, diagnosis and repair of air delivery systems including turbochargers, diesel particulate filters and other exhaust catalysts. Upon completion, students should be able to demonstrate skills necessary to research service information, and inspect, test, and repair induction, boost, and after-treatment components.

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### LDD-284

#### LDD Test and Diagnosis

This course covers fundamentals of electronic engine management with an emphasis on diagnostic procedures and on-board diagnostic (OBD) systems in light-duty diesels. Topics include adaptive closed-loop controls, high-voltage injection systems, OBD fault detection, and government rules and regulations. Upon completion, students should be able to utilize diagnostic resources and equipment, identify and troubleshoot electronic malfunctions, and complete repairs on light-duty diesels.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## MAC

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### MAC-111

#### Machining Technology I

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.

**Corequisites** MAC-114

**Class 2.00, Lab 12.00, Clinical 0.00, Work 0.00, SHC 6.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-111AB

#### Machining Technology I-Part A

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.

## Corequisites MAC-114

**Class 1.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-111BB

#### Machining Technology I-Part B

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.

**Prerequisites** Take MAC-111AB

**Corequisites** MAC-114

**Class 1.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-112

#### Machining Technology II

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.

**Prerequisites** Take MAC-111;

**Class 2.00, Lab 12.00, Clinical 0.00, Work 0.00, SHC 6.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-112AB

#### Machining Technology II

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.

**Prerequisites** Take MAC-111;

**Class 1.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-112BB

#### Machining Technology II

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.

**Prerequisites** Take MAC-111 MAC-112AB;

**Class 1.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-114

#### Introduction to Metrology

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.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-122

#### CNC Turning

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.

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

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#### MAC-124

##### CNC Milling

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.

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MAC-143

##### Machining Applications III

This course provides instruction in the field of advanced machining. Emphasis is placed on creating complex components, close-tolerance machining, precise measurement, and proper equipment usage. Upon completion, students should be able to demonstrate the ability to produce an accurately machined component with a quality finish using the proper machining process.

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MAC-151

##### Machining Calculations

This course introduces basic calculations as they relate to machining occupations. Emphasis is placed on basic calculations and their applications in the machine shop. Upon completion, students should be able to perform basic shop calculations.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MAC-152

##### Advanced Machining Calculations

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.

**Prerequisites** Take MAC-151.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MAC-222

##### Advanced CNC Turning

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.

**Prerequisites** Take MAC-122;

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MAC-224

##### Advanced CNC Milling

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.

**Prerequisites** Take MAC-124;

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-229

#### CNC Programming

This course provides concentrated study in advanced programming techniques for working with modern CNC machine tools. Topics include custom macros and subroutines, canned cycles, and automatic machining cycles currently employed by the machine tool industry. Upon completion, students should be able to program advanced CNC functions while conserving machine memory.

**Prerequisites** Take MAC-122 MAC-124;

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-233

#### Appl in CNC Machining

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.

**Prerequisites** Take MAC-222 MAC-224 MEC-232;

**Corequisites** MAC-248

**Class** 2.00, **Lab** 12.00, **Clinical** 0.00, **Work** 0.00, **SHC** 6.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-234

#### Advanced Multi-Axis Machining

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.

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAC-248

#### Production Procedures

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.

**Prerequisites** Take MAC-122 MAC-124;

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## MAT

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### MAT-003

#### Transition Math

This course provides an opportunity to customize foundational math content in specific math areas and will include developing a growth mindset. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in their gateway level math courses by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

**Class** 0.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAT-010

#### Math Measurement & Literacy Support

This course provides an opportunity to customize foundational math content specific to Math Measurement & Literacy. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Math

Measurement & Literacy by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

**Corequisites** Take MAT 110

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on Feb. 21, 2020, 2:21 p.m.

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MAT-021

Algebra/Trigonometry I Support

This course provides an opportunity to customize foundational math content specific to Algebra and Trigonometry I. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Algebra/Trigonometry I by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

**Corequisites** Take MAT 121

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on Feb. 21, 2020, 6:08 p.m.

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MAT-043

Quantitative Literacy Support

This course provides an opportunity to customize foundational math content specific to Quantitative Literacy. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Quantitative Literacy by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

**Corequisites** Take MAT 143

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on Feb. 21, 2020, 6:08 p.m.

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MAT-052

Statistical Methods I Support

This course provides an opportunity to customize foundational math content specific to Statistical Methods I. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Statistical Methods I by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

**Corequisites** Take MAT 152

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on Feb. 21, 2020, 2:19 p.m.

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MAT-071

Precalculus Algebra Support

This course provides an opportunity to customize foundational math content specific to Precalculus Algebra. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Precalculus Algebra by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

**Corequisites** Take MAT 171

**Class** 0.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on Feb. 21, 2020, 2:19 p.m.

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MAT-110

Mathematical Measurement and Literacy

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.

**Prerequisites** Take 1 group; #Take DMA 010, DMA 020, and DMA 030 #Take DMA 025 #Take MAT 003 #Take BSP 4003

**Corequisites** Take MAT 010

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

© Last updated on Feb. 21, 2020, 2:07 p.m.

### MAT-121

#### Algebra/Trigonometry I

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.

**Prerequisites** Take 1 group; #DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050 #DMA 025 DMA 040 and DMA 050 #DMA 025 and DMA 045 #DMA 010, DMA 020, DMA 030 and DMA 045 #MAT 003 with a grade of P2 #BSP 4003 with a grade of P2

**Corequisites** Take MAT 021

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

© Last updated on Feb. 21, 2020, 2:13 p.m.

### MAT-143

#### Quantitative Literacy

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take 2 groups; Group 1 Take 1 Math Set: Set 1: DMA-010, DMA-020, DMA-030 Set 2: DMA-025 Set 3: MAT-003 Set 4: BSP-4003 Group 2 Take 1 English Set: Set 1: DRE 098 Set 2: ENG 002 Set 3: BSP-4002

**Corequisites** Take MAT 043

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

© Last updated on Feb. 21, 2020, 2:15 p.m.

### MAT-152

#### Statistical Methods I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take 2 groups; Group 1: Take 1 math set: #Take DMA-010 DMA-020 DMA-030 #Take DMA-025 #Take MAT-003 #Take BSP-4003 Group 2: Take 1 English set: #Take DRE 098 #Take ENG 002 #Take BSP 4002

**Corequisites** Take MAT 052

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

© Last updated on Feb. 21, 2020, 2:07 p.m.



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### MAT-171

#### Precalculus Algebra

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take One Set: Set 1: Take DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, Set 2: Take DMA-010 DMA-020 DMA-030 DMA-045 Set 3: Take DMA-025 DMA-045 Set 4: Take DMA-025 DMA-040 DMA-050 Set 5: Take MAT-121 Set 6: Take MAT-003 with a grade of P2 Set 7: Take BSP 4003 with a grade of P2

**Corequisites** Take MAT-071

**Class** 3.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on Feb. 21, 2020, 2:03 p.m.

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### MAT-172

#### Precalculus Trigonometry

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take MAT-171

**Class** 3.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAT-263

#### Brief Calculus

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take MAT-171

**Class** 3.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAT-271

#### Calculus I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take: MAT-172

**Class** 3.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAT-272

#### Calculus II

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take MAT-271

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAT-273

#### Calculus III

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.

**Prerequisites** Take MAT-272

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAT-280

#### Linear Algebra

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.

**Prerequisites** Take MAT-271

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MAT-285

#### Differential Equations

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.

**Prerequisites** Take MAT-272

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## MEC

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### MEC-110

#### Introduction to CAD/CAM

This course introduces CAD/CAM. Emphasis is placed on transferring part geometry from CAD to CAM for the development of a CNC-ready program. Upon completion, students should be able to use CAD/CAM software to produce a CNC program.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on Sept. 18, 2019, 3:08 p.m.

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#### MEC-111

##### Machine Processes I

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.

**Class 1.00, Lab 4.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MEC-130

##### Mechanisms

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.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on Sept. 6, 2019, 1:41 p.m.

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#### MEC-142

##### Physical Metallurgy

This course covers the heat treating of metals. Emphasis is placed on the effects of hardening, tempering, and annealing on the structure and physical properties of metals. Upon completion, students should be able to heat treat materials.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MEC-145

##### Manufacturing Materials I

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.

**Class 2.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MEC-231

##### Computer-Aided Manufacturing I

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.

**Prerequisites** Take MEC-110;

**Class 1.00, Lab 4.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MEC-232

##### Computer-Aided Manufacturing II

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.

**Prerequisites** Take MEC-231

**Class 1.00, Lab 4.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MEC-265

##### Fluid Mechanics

This course covers the physical behavior of fluids and fluid systems. Topics include fluid statics and dynamics, laminar and turbulent flow, Bernoulli's Equation, components, applications, and other related topics. Upon completion, students should be able to apply fluid power principles to practical applications.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

### MEC-275

#### Engineering Mechanisms

This course covers plane motion and devices used to generate plane motion. Topics include analysis of displacement, velocity, acceleration, gears, cams, and other mechanical systems. Upon completion, students should be able to graphically and mathematically analyze a plane motion system.

**Prerequisites** Take One: PHY-131, PHY-151, or PHY-251

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## MED

### MED-120

#### Survey of Medical Terminology

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.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### MED-130

#### Admin Office Proc I

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.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## MKT

### MKT-120

#### Principles of Marketing

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### MKT-123

#### Fundamentals of Selling

This course is designed to emphasize the necessity of selling skills in a modern business environment. Emphasis is placed on sales techniques involved in various types of selling situations. Upon completion, students should be able to demonstrate an understanding of the techniques covered.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### MKT-220

#### Advertising and Sales Promotion

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MKT-223

Customer Service

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MKT-225

Marketing Research

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.

**Prerequisites** Take MKT-120

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MKT-227

Marketing Applications

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MKT-232

Social Media Marketing

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.

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## MSM

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#### MSM-110

Intro to Motorsports Mgmt

This course provides a survey of the motorsports industry. Topics include history and scope of motorsports, sanctioning bodies, types and characteristics of vehicles, related businesses, job opportunities, and economics of the industry. Upon completion, students should be able to demonstrate a general knowledge of the motorsports industry and evaluate career choices and direction.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### MSM-112

Engine/Drivetrain Fundamentals

This course introduces the principles of internal combustion engines and drivetrains. Topics include types of engines used in motorsports, basic physics of engine operation, terminology related to engines/drivetrains, tools/equipment, and functions of components and accessories. Upon completion, students should be able to identify basic parts of engines/drivetrains, identify shop tools/equipment, and explain how power is generated, transmitted, and controlled.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MSM-210

#### Motorsports Marketing

This course introduces principles and problems of marketing goods and services especially related to the motorsports industry. Topics include promotion, placement, and pricing strategies for motorsports products and services; importance/significance of media on product image; and the human relations element in marketing. Upon completion, students should be able to develop a marketing and media plan for a motorsports product or service.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MSM-212

#### Chassis Handling Fundamentals

This course introduces chassis design/handling features for super speedways, short tracks, and road courses. Topics include spring rates, caster/camber settings, aerodynamics, tire construction, tire pressure, stagger, corner and cross weights, chassis flex, steering geometry, and effects of track design on chassis handling and tire wear. Upon completion, students should be able to demonstrate a basic understanding of chassis design and the critical factors involved in chassis set-ups.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MSM-214

#### Fabrication Fundamentals

This course introduces the basic elements of race vehicle fabrication. Topics include chassis design (driver safety, "crush" zones, energy absorption, flex); selection of materials; material forming; and fundamentals of mig, tig, and arc welding. Upon completion, students should be able to demonstrate basic knowledge of fabrication and be able to perform elementary fabrication procedures.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MSM-216

#### Organization Mobility

This course covers the processes and procedures involved in moving complex operations from one location to another in a short time span. Topics include budgeting/coordination of transport/housing/ subsistence of personnel; transport of vehicles/equipment or products (including adherence to DOT regulations); facility acquisition; and cost accounting. Upon completion, students should be able to plan and execute a mock both-way move of a complex operation.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MSM-218

#### Safety/Environment

This course covers safety and environmental information related to motorsports management. Topics include local, state, and federal regulations as applied to workplace safety, handling/disposal of certain materials, safe transport of products/vehicles, and processing of required paperwork. Upon completion, students should be able to identify the source and describe general regulations pertaining to safety/environment related to motorsports.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MSM-220

#### Advanced Chassis Analysis

This course introduces students to the principles of static and dynamic chassis calculations. Topics include basic understanding of the building and testing of shocks, basic applications of dynamic weight transfer, and use of software programs for chassis setups. Upon completion, students should be able to explain the effect and/or reaction of certain suspension and chassis changes using advanced technology.

**Prerequisites** Take MSM-212

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

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### MSM-285

#### Motorsport Capstone Project

This course provides a capstone experience for the motorsports management technology student. Topics include planning, preparing, and developing a specific motorsports simulated project, including all aspects related to the management of the project. Upon completion, students should be able to document and defend a project, such as a new team start-up, major event management, or major sales promotion.

**Prerequisites** Take All: MSM-110 and BUS-137

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## MUS

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### MUS-110

#### Music Appreciation

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MUS-112

#### Introduction to Jazz

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MUS-131

#### Chorus I

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.

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MUS-132

#### Chorus II

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.

**Prerequisites** Take MUS-131

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### MUS-210

#### History of Rock Music

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.



## NAS

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### NAS-101

#### Nurse Aide I

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.

**Class 3.00, Lab 4.00, Clinical 3.00, Work 0.00, SHC 6.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### NAS-102

#### Nurse Aide II

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.

**Prerequisites** Take NAS-101

**Class 3.00, Lab 2.00, Clinical 6.00, Work 0.00, SHC 6.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## NET

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### NET-110

#### Networking Concepts

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.

**Prerequisites** Take CIS-110

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### NET-125

#### Introduction to Networks

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.

**Class 1.00, Lab 4.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### NET-126

#### Routing Basics

This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs.



**Prerequisites** Take NET 125

NET-175

Wireless Technology

This course introduces the student to wireless technology and interoperability with different communication protocols. Topics include Wireless Application Protocol (WAP), Wireless Mark-up language (WML), link manager, service discovery protocol, transport layer and frequency band. Upon completion, students should be able to discuss in written and oral form protocols and procedures required for different wireless applications.

**Prerequisites** Take NET-126

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

NET-225

Routing & Switching I

This course focuses on advanced IP addressing techniques, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, VLANs, STP, and VTP. Emphasis will be placed on application and demonstration of skills acquired in pre-requisite courses. Upon completion, students should be able to perform tasks related to VLSM, routing protocols, switching concepts and configuration, STP, VLANs, and VTP.

**Prerequisites** Take NET 126

**Class** 1.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

NET-226

Routing and Switching II

This course introduces WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, and additional case studies. Topics include network congestion problems, TCP/IP transport and network layer protocols, advanced routing and switching configuration, ISDN protocols, PPP encapsulation operations on a router. Upon completion, students should be able to provide solutions for network routing problems, identify ISDN protocols, and describe the Spanning Tree protocol.

**Prerequisites** Take NET 225

**Class** 1.00, **Lab** 4.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## NOS

NOS-120

Linux/UNIX Single User

This course develops the necessary skills for students to develop both GUI and command line skills for using and customizing a Linux workstation. Topics include Linux file system and access permissions, GNOME Interface, VI editor, X Window System expression pattern matching, I/O redirection, network and printing utilities. Upon completion, students should be able to customize and use Linux systems for command line requirements and desktop productivity roles.

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

NOS-130

Windows Single User

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment.

**Prerequisites** Take CTI-120

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

NOS-230

## Windows Administration I

This course covers the installation and configuration of a Windows Server operating system. Emphasis is placed on the basic configuration of core network services, Active Directory and group policies. Upon completion, students should be able to install and configure a Windows Server operating system.

**Prerequisites** Take NOS-130

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## NUR

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### NUR-101

#### Practical Nursing I

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.

**Corequisites** Take BIO-163 OR both BIO-168 and BIO-169. Take PSY-110 OR both PSY-150 and PSY-241.

**Class** 7.00, **Lab** 6.00, **Clinical** 6.00, **Work** 0.00, **SHC** 11.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### NUR-102

#### Practical Nursing II

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.

**Prerequisites** Take NUR-101, BIO-163, and PSY-110.

**Corequisites** ENG-111

**Class** 7.00, **Lab** 0.00, **Clinical** 9.00, **Work** 0.00, **SHC** 10.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### NUR-103

#### Practical Nursing III

This course focuses on use of nursing/related concepts by practical nurses as providers of care/members of discipline in collaboration with health team members. Emphasis is placed on the nursing process, wellness/illness patterns, entry-level issues, accountability, advocacy, professional development, evolving technology, and changing health care delivery systems. Upon completion, students should be able to use the nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span.

**Prerequisites** Take NUR-101; NUR-102; ENG-111

**Class** 6.00, **Lab** 0.00, **Clinical** 9.00, **Work** 0.00, **SHC** 9.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### NUR-111

#### Introduction to Health Concepts

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.

**Corequisites** ENG-111 BIO-168 PSY-150

**Class** 4.00, **Lab** 6.00, **Clinical** 6.00, **Work** 0.00, **SHC** 8.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### NUR-112

#### Health-Illness Concepts

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.

**Prerequisites** Take NUR-111; Take ENG-111 BIO-168 PSY-150;

**Corequisites** Take NUR 112, BIO 169, PSY 241

**Class** 3.00, **Lab** 0.00, **Clinical** 6.00, **Work** 0.00, **SHC** 5.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### NUR-113

#### Family Health Concepts

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.

**Prerequisites** Take NUR-111; Take ENG 111, BIO 168, PSY 150

**Corequisites** Take NUR 112, BIO 169, PSY 241

**Class** 3.00, **Lab** 0.00, **Clinical** 6.00, **Work** 0.00, **SHC** 5.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### NUR-114

#### Holistic Health Concepts

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.

**Prerequisites** Take NUR 111;

**Corequisites** Take NUR 112, NUR 113

**Class** 3.00, **Lab** 0.00, **Clinical** 6.00, **Work** 0.00, **SHC** 5.00

🕒 Last updated on Nov. 4, 2019, 10:57 a.m.

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### NUR-211

#### Health Care Concepts

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.

**Prerequisites** Take NUR-111

**Class** 3.00, **Lab** 0.00, **Clinical** 6.00, **Work** 0.00, **SHC** 5.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### NUR-212

#### Health System Concepts

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

**Prerequisites** Take NUR 111;

**Corequisites** Take NUR 112 NUR 113 NUR 114 NUR 211

**Class** 3.00, **Lab** 0.00, **Clinical** 6.00, **Work** 0.00, **SHC** 5.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### NUR-213

#### Complex Health Concepts

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.

**Prerequisites** Take NUR 111

**Corequisites** Take NUR 112 , NUR 113, NUR 114, NUR 211, and NUR 212

**Class** 4.00, **Lab** 3.00, **Clinical** 15.00, **Work** 0.00, **SHC** 10.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### NUR-221

#### LPN to ADN Concepts I

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.

**Class** 6.00, **Lab** 0.00, **Clinical** 9.00, **Work** 0.00, **SHC** 9.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### NUR-223

#### LPN to ADN Concepts II

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.

**Prerequisites** Take NUR 221.

**Class** 6.00, **Lab** 0.00, **Clinical** 9.00, **Work** 0.00, **SHC** 9.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## OMT

### OMT-241

#### Logistics

This course presents the market-driven activities necessary to plan and procure materials, control manufacturing, and distribute products to customers throughout the supply chain. Topics include production and inventory control, procurement, distribution, and their interrelationships. Upon completion, students should be able to demonstrate an understanding of logistics and be prepared for the APICS CIRM examination.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## OST

### OST-136

#### Word Processing

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.

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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### OST-141

#### Med Office Terms I

This course uses a language-structure approach to present the terminology and vocabulary that will be encountered in medical office settings. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in approximately one-half of the systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### OST-142

#### Med Office Terms II

This course is a continuation of OST 141 and continues the study, using a language-structure approach, of medical office terminology and vocabulary. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in the remaining systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms.

**Prerequisites** Take MED 121 or OST-141

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### OST-148

#### Medical Insurance & Billing

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### OST-149

#### Medical Legal Issues

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### OST-181

#### Office Procedures

This course introduces the skills and procedures needed in today's office. Topics include effectively interacting with co-workers and the public, processing simple financial and informational documents, and performing functions typical of today's offices. Upon completion, students should be able to display skills and decision-making abilities essential for functioning in the total office context.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### OST-243

#### Med Office Simulation

This course introduces medical systems used to process information in the automated office. Topics include traditional and electronic information resources, storing and retrieving information, and the billing cycle. Upon completion, students should be able to use the computer accurately to schedule, bill, update, and make corrections.

**Prerequisites** Take OST-148; Take OST-142;

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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OST-247

Procedure Coding

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.

**Prerequisites** Take MED-121 or OST-141

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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OST-248

Diagnostic Coding

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. Requisite Courses Prerequisite Take One: MED-121 or OST-141 College Transfer N/A General Education Classification None State-Level Registration Restriction None Approval Authority CRC Approval Date 05/26/16 Tier 2 Start Date 08/15/17 End Date Can a local title be added? No Equate OST-248 - all versions of OST-248 National ID (CIP) 52.0204

**Prerequisites** Take MED-121 or OST-141

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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## OTA

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OTA-110

Fundamentals of OT

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.

**Corequisites** Take One: BIO-165 or BIO-168

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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OTA-120

OT Media I

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.

**Corequisites** Take OTA-110

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

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OTA-130

Assessment Skills

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.

**Corequisites** Take OTA-110

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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#### OTA-135

##### Kinesiology

This course provides training in understanding and using principles of normal human movement. Topics include terminology, structures of the body associated with movement, principles of motion, analysis of movement, joint structure and its impact on motion, and muscle actions. Upon completion, students should be able to demonstrate proficiency in identifying terms associated with movement, motions, structures, normal ranges and directions of motion, and general principles of human movement; and apply biomechanical principles to safe and efficient functional mobility activities.

**Prerequisites** Take OTA-110

**Corequisites** Take One: BIO-165 or BIO-168

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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#### OTA-140

##### Professional Skills I

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.

**Corequisites** Take OTA-110

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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#### OTA-150

##### Pediatric Concepts and Interventions

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.

**Corequisites** Take PSY-241 and OTA-170

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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#### OTA-161

##### Fieldwork I-Placement 1

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.

**Prerequisites** Take OTA-120 and OTA-140

**Class** 0.00, **Lab** 0.00, **Clinical** 3.00, **Work** 0.00, **SHC** 1.00

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#### OTA-162



#### Fieldwork I-Placement 2

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.

**Prerequisites** Take OTA-120 and OTA-140

**Corequisites** Take OTA-130

**Class** 0.00, **Lab** 0.00, **Clinical** 3.00, **Work** 0.00, **SHC** 1.00

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#### OTA-163

##### Fieldwork I-Placement 3

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.

**Prerequisites** Take OTA-120 and OTA-140

**Corequisites** Take OTA-130

**Class** 0.00, **Lab** 0.00, **Clinical** 3.00, **Work** 0.00, **SHC** 1.00

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#### OTA-170

##### Physical Conditions

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.

**Corequisites** Take OTA-130

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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#### OTA-180

##### Psychosocial Conditions

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.

**Prerequisites** Take PSY-281

**Corequisites** Take OTA-130

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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#### OTA-220

##### OT Media II

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.

**Prerequisites** Take OTA-120 and OTA-130

**Class** 1.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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#### OTA-240

##### Professional Skills II

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.

**Prerequisites** Take OTA-140

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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#### OTA-245

##### Professional Skills III

This course provides preparation for Fieldwork II experiences using skills/knowledge gained in OTA 140 and OTA 240 to promote integration into the professional community. Topics include interview skills, resume production, conflict resolution, professional presentations, participation in research activities, and completion of all forms required for Fieldwork II. Upon completion, students should be able to independently complete employment-seeking activities and provide in-service training.

**Prerequisites** Take OTA-240

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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#### OTA-250

##### Adult Concepts & Interventions

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.

**Corequisites** Take PSY-241, OTA-170 and OTA-180

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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#### OTA-260

##### Level II Fieldwork Placement 1

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.

**Class** 0.00, **Lab** 0.00, **Clinical** 18.00, **Work** 0.00, **SHC** 6.00

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#### OTA-261

##### Level II Fieldwork Placement 2

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.

**Class** 0.00, **Lab** 0.00, **Clinical** 18.00, **Work** 0.00, **SHC** 6.00

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#### OTA-280

##### Professional Transitions

This course provides closure to the educational program in conjunction with clinical experience. Emphasis is placed on portfolio development and presentation, program evaluation, analysis and synthesis of clinical experiences, and final preparation for the certification examination. Upon completion, students should be able to enter the occupational therapy

(OT) workforce with an understanding of themselves as OT professionals, and with supportive documentation demonstrating progress toward meeting competencies set forth by the profession and regulatory bodies.

**Corequisites** Take One: OTA-260 or OTA-261

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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## PED

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PED-110

Fit and Well for Life

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.

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

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PED-111

Physical Fitness I

This course provides an individualized approach to physical fitness utilizing the five major components. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness programs. Upon completion, students should be able to set up and implement an individualized physical fitness program.

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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PED-112

Physical Fitness II

This course is an intermediate-level fitness class. Topics include specific exercises contributing to fitness and the role exercise plays in developing body systems. Upon completion, students should be able to implement and evaluate an individualized physical fitness program.

**Prerequisites** Take PED-111

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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PED-117

Weight Training I

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.

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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PED-118

Weight Training II

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.

**Prerequisites** Take PED-117

**Class** 0.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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PED-121

Walk, Jog, Run

This course covers the basic concepts involved in safely and effectively improving cardiovascular fitness. Emphasis is placed on walking, jogging, or running as a means of achieving fitness. Upon completion, students should be able to understand and appreciate the benefits derived from these activities.

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PED-122

Yoga I

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.

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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PED-123

Yoga II

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.

**Prerequisites** Take PED-122

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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PED-217

Pilates I

This course provides an introduction to the pilates method of body conditioning exercise. Topics include instruction in beginning and intermediate pilates exercises using a mat or equipment, history of pilates method, and relevant anatomy and physiology. Upon completion, students should be able to perform beginning and intermediate exercises, and possess an understanding of the benefits of conditioning the body's core muscles.

**Class** 0.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 1.00

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## PHI

PHI-230

Introduction to Logic

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.

**Prerequisites** Take ENG-111

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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PHI-240

Introduction to Ethics

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take ENG-111

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

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# PHY

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## PHY-110

### Conceptual Physics

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take 1 group; #Take MAT-060; #Take DMA-010 DMA-020 DMA-030 DMA-040; #Take MAT-003 with a grade of P2.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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## PHY-110A

### Conceptual Physics Lab

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.

**Corequisites** PHY-110

**Class 0.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 1.00**

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## PHY-131

### Physics-Mechanics

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.

**Prerequisites** Take One: MAT-121 or MAT-171

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

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## PHY-132

### Physics-Electricity & Magnetism

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.

**Prerequisites** Take PHY-131

**Class 3.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 4.00**

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## PHY-151

### College Physics I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take MAT-171

**Class** 3.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

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PHY-152

College Physics II

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take PHY-151

**Class** 3.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

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PHY-251

General Physics I

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take MAT-271

**Corequisites** MAT-272

**Class** 3.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

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PHY-252

General Physics II

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Prerequisites** Take All: MAT-272 and PHY-251

**Class** 3.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

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## POL

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POL-120

American Government

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### POL-130

State & Local Government

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### POL-220

International Relations

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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## PSY

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### PSY-110

Life Span Development

This course provides an introduction to the study of human growth and development. Emphasis is placed on 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 and apply this knowledge to their specific field of study.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### PSY-118

Interpersonal Psychology

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### PSY-150

General Psychology

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.

This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on Feb. 17, 2020, 1:42 p.m.

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### PSY-211

Psychology of Adjustment

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.

**Prerequisites** Take PSY-150

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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PSY-215

Positive Psychology

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.

**Prerequisites** Take PSY-150

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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PSY-231

Forensic Psychology

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.

**Prerequisites** Take PSY-150

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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PSY-237

Social Psychology

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.

**Prerequisites** Take One: PSY-150 or SOC-210

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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PSY-239

Psychology of Personality

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.

**Prerequisites** Take PSY-150

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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PSY-241

Developmental Psychology

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.

**Prerequisites** Take PSY-150

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### PSY-243

#### Child Psychology

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.

**Prerequisites** Take PSY-150

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### PSY-246

#### Adolescent Psychology

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.

**Prerequisites** Take PSY-150

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### PSY-249

#### Psychology of Aging

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.

**Prerequisites** Take PSY-150

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### PSY-259

#### Human Sexuality

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.

**Prerequisites** Take PSY-150

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### PSY-275

#### Health Psychology

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.

**Prerequisites** Take PSY-150

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### PSY-281

#### Abnormal Psychology



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.

**Prerequisites** Take PSY-150

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## PTA

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### PTA-110

#### Intro to Physical Therapy

This course introduces the field of physical therapy including the history and standards of practice for the physical therapist assistant and basic treatment techniques. Emphasis is placed on ethical and legal considerations, universal precautions, vital signs, documentation, basic patient preparation and treatment skills, and architectural barrier screening. Upon completion, students should be able to explain the role of the physical therapist assistant and demonstrate competence in basic techniques of patient care.

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### PTA-120

#### Functional Anatomy

This course provides an organized study of anatomy and kinesiology. Emphasis is placed on the integration of structure and function of the skeletal, articular, muscular, nervous, and circulatory systems to include gait analysis. Upon completion, students should be able to describe the components and demonstrate function of these systems as applied to physical therapy.

**Corequisites** Take PTA-140

**Class** 1.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### PTA-130

#### Physical Therapy Proc I

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.

**Corequisites** Take PTA-110

**Class** 1.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### PTA-140

#### Therapeutic Exercise

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.

**Corequisites** Take PTA-120

**Class** 2.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### PTA-150

#### Physical Therapy Proc II

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.

**Prerequisites** Take PTA-130**Class** 1.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## PTA-160

## Physical Therapy Proc III

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.

**Prerequisites** Take PTA-150**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## PTA-170

## Pathophysiology

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## PTA-180

## PTA Clinical Ed Intro

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.

**Class** 0.00, **Lab** 0.00, **Clinical** 9.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## PTA-212

## Health Care/Resources

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.

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## PTA-222

## Professional Interactions

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.

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## PTA-240

## Physical Therapy Proc IV

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.

**Class 3.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 5.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### PTA-252

Geriatrics for the PTA

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.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### PTA-254

Pediatrics for the PTA

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.

**Class 0.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### PTA-260

Adv. PTA Clinical Ed.

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.

**Prerequisites** Take One Set: Set 1: PTA-180 Set 2: PTA-182 and PTA-210

**Class 0.00, Lab 0.00, Clinical 30.00, Work 0.00, SHC 10.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### PTA-270

PTA Topics

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.

**Class 1.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### PTA-280

PTA Issues I

This course consists of reports, discussions, and guest lectures on the latest physical therapy techniques, equipment, and health sciences specialties. Topics include reports on extra-departmental experiences, case studies, and literature reviews. Upon completion, students should be able to discuss specialized physical therapy equipment and/or related fields and display competent writing skills.

**Class 1.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## RAD

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#### RAD-110

Rad Intro & Patient Care

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.

**Corequisites** Take RAD-111 and RAD-151.

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### RAD-111

##### RAD Procedures I

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.

**Class** 3.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### RAD-112

##### RAD Procedures II

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.

**Prerequisites** Take All: RAD-110, RAD-111, and RAD-151

**Class** 3.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### RAD-121

##### Image Production I

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.

**Prerequisites** Take All: RAD-110, RAD-111, and RAD-151

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### RAD-122

##### Image Production II

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.

**Prerequisites** Take All: RAD-112, RAD-121, and RAD-161

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### RAD-141

##### Radiation Safety

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.

**Prerequisites** Take All: RAD-112, RAD-121, and RAD-161

**Class** 2.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

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### RAD-151

#### RAD Clinical Ed I

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.

**Corequisites** Take RAD-110 and RAD-111.

**Class** 0.00, **Lab** 0.00, **Clinical** 6.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### RAD-161

#### RAD Clinical Ed II

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.

**Prerequisites** Take All: RAD-110, RAD-111, and RAD-151

**Corequisites** Take RAD-112 and RAD-121.

**Class** 0.00, **Lab** 0.00, **Clinical** 15.00, **Work** 0.00, **SHC** 5.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### RAD-171

#### RAD Clinical Ed III

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.

**Prerequisites** Take All: RAD-112, RAD-121, and RAD-161

**Class** 0.00, **Lab** 0.00, **Clinical** 9.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### RAD-211

#### RAD Procedures III

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.

**Prerequisites** Take All: RAD-122, RAD-141, and RAD-171.

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### RAD-231

#### Image Production III

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.

**Prerequisites** Take All: RAD-122, RAD-141, and RAD-171

**Class** 1.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### RAD-251

RAD Clinical Ed IV

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 a further awareness of radiation protection requirements. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**Prerequisites** Take All: RAD-122 and RAD-171.

**Corequisites** Take All: RAD-211 and RAD-231.

**Class** 0.00, **Lab** 0.00, **Clinical** 21.00, **Work** 0.00, **SHC** 7.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### RAD-261

RAD Clinical Education V

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.

**Prerequisites** Take RAD-251.

**Corequisites** Take RAD-271.

**Class** 0.00, **Lab** 0.00, **Clinical** 21.00, **Work** 0.00, **SHC** 7.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### RAD-271

Radiography Capstone

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.

**Prerequisites** Take All: RAD-211, RAD-231, and RAD-251.

**Class** 2.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## REF

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#### REF-116

Commercial Systems I

This course introduces and compares various commercial refrigeration systems. Topics include service, repair, and diagnostic procedures for commercial systems and components, as well as evacuation, charging, startup, and evaluation. Upon completion, students should be able to use appropriate tools, instruments, and procedures to service and install basic refrigeration systems or components.

**Prerequisites** Take AHR-115

**Class** 2.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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REF-117

Refrigeration Controls

This course covers the design, operation, function, and schematics of basic control systems used in the refrigeration industry. Topics include proper control application, selection, and use of test instruments; simple control wiring; and the use of schematics as a troubleshooting tool. Upon completion, students should be able to identify, diagnose, and repair electrical and mechanical malfunctioning components.

**Prerequisites** Take One: AHR-110, AHR-111, or ELC-111

**Class** 2.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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REF-260

Commercial Systems II

This course covers the installation and start up of common commercial refrigeration systems. Topics include the installation of display/storage boxes or cases, walk-in systems, dispensing machines, ice-making equipment, and refrigerated laboratory equipment. Upon completion, students should be able to safely install and start up common commercial refrigeration systems.

**Prerequisites** Take One: AHR-115 or ELC-111

**Class** 2.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

## REL

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REL-110

World Religions

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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REL-211

Introduction to Old Testament

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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REL-212

Introduction to New Testament

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.

## SEC

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### SEC-110

#### Security Concepts

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.

**Prerequisites** Take CTI-120

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### SEC-150

#### Secure Communications

This course provides an overview of current technologies used to provide secure transport of information across networks. Topics include data integrity through encryption, Virtual Private Networks, SSL, SSH, and IPSec. Upon completion, students should be able to implement secure data transmission technologies.

**Prerequisites** Take NET-126

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### SEC-160

#### Security Administration I

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.

**Prerequisites** Take NET-126

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### SEC-210

#### Intrusion Detection

This course introduces the student to intrusion detection methods in use today. Topics include the types of intrusion detection products, traffic analysis, and planning and placement of intrusion detection solutions. Upon completion, students should be able to plan and implement intrusion detection solution for networks and host-based systems.

**Prerequisites** Take CTI-120

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## SOC

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### SOC-210

#### Introduction to Sociology

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.



This course is a Universal General Education Transfer Component course that is guaranteed to transfer for general education equivalency credit to each of the 16 institutions in the University of North Carolina system.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### SOC-213

##### Sociology of the Family

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### SOC-220

##### Social Problems

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### SOC-230

##### Race and Ethnic Relations

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### SOC-234

##### Sociology of Gender

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### SOC-240

##### Social Psychology

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### SOC-242

##### Sociology of Deviance

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

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### SOC-245

#### Drugs and Society

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.

**Prerequisites** Take SOC 210 and either ENG 002 or BSP 4002.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on Oct. 23, 2019, 12:23 p.m.

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### SOC-250

#### Sociology of Religion

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## SPA

### SPA-111

#### Elementary Spanish I

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### SPA-112

#### Elementary Spanish II

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.

**Prerequisites** Take SPA-111

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### SPA-120

#### Spanish for the Workplace

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.

**Class 3.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### SPA-211

#### Intermediate Spanish I

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.

**Prerequisites** Take SPA-112

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## SPA-212

Intermediate Spanish II

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.

**Prerequisites** Take SPA-211

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## SST

### SST-140

Green Building and Design Concepts

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.

**Class** 3.00, **Lab** 0.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## TRN

### TRN-110

Introduction to Transport Technology

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.

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### TRN-120

Basic Transportation Electricity

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.

**Class** 4.00, **Lab** 3.00, **Clinical** 0.00, **Work** 0.00, **SHC** 5.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

### TRN-130

Intro to Sustainable Transportation

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.

**Prerequisites** Take TRN-110 and TRN-120.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

TRN-140

Transportation Climate Control

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.

**Prerequisites** Take TRN-120;

**Corequisites** TRN-140A

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

TRN-140A

Transportation Climate Control Lab

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.

**Corequisites** TRN-140

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

TRN-170

Pc Skills for Transportation

This course introduces students to personal computer literacy and Internet literacy with an emphasis on the transportation service industry. Topics include service information systems, management systems, computer-based systems, and PC-based diagnostic equipment. Upon completion, students should be able to access information pertaining to transportation technology and perform word processing.

**Class 1.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## UAS

UAS-115

Small UAS Certification

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.

**Class 2.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on Sept. 6, 2019, 9:27 a.m.

UAS-230

UAS Aerial Photo Surveys

This course introduces students to some of the popular unmanned aerial photographic applications commonly utilized in commercial unmanned aircraft systems (UAS) operations involving aerial surveys and photography. Topics include aerial photography and equipment, aerial vehicles, examples of successful UAS survey and photographic business models, and Federal Aviation Regulations governing airspace applications. Upon completion, students should be able to plan, implement and conduct a successful photo aerial survey mission.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on Sept. 6, 2019, 9:28 a.m.

## WBL

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### WBL-110

#### World of Work

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.

**Class 1.00, Lab 0.00, Clinical 0.00, Work 0.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### WBL-111

#### Work-Based Learning I

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 10.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### WBL-112

#### Work-Based Learning I

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 20.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### WBL-113

#### Work-Based Learning I

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 30.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### WBL-114

#### Work-Based Learning I

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 40.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### WBL-121

#### Work-Based Learning II

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 10.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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### WBL-122

#### Work-Based Learning II

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 20.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WBL-123

##### Work-Based Learning II

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 30.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WBL-131

##### Work-Based Learning III

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 10.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WBL-132

##### Work-Based Learning III

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 20.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WBL-211

##### Work-Based Learning IV

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.

**Class 0.00, Lab 0.00, Clinical 0.00, Work 10.00, SHC 1.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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## WEB

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#### WEB-110

##### Internet/Web Fundamentals

This course introduces World Wide Web Consortium (W3C) standard markup language and services of the Internet. Topics include creating web pages, search engines, FTP, and other related topics. Upon completion, students should be able to deploy a hand-coded website created with mark-up language, and effectively use and understand the function of search engines.

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WEB-187

##### Programming for Mobile Devices

This course introduces content development for mobile electronic devices with a focus on business-related, social media, and entertainment applications. Emphasis is placed on developing web content and creating applications for mobile devices, including internet/business practices and techniques for delivery on mobile platforms. Upon completion, students should be able to develop web content and business or entertainment applications for use on mobile electronic devices.

**Prerequisites** Take CIS-115

**Class 2.00, Lab 2.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

## WLD

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### WLD-110

#### Cutting Processes

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.

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### WLD-112

#### Basic Welding Processes

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.

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### WLD-115

#### SMAW (Stick) Plate

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.

**Corequisites** WLD-110

**Class 2.00, Lab 9.00, Clinical 0.00, Work 0.00, SHC 5.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### WLD-116

#### SMAW (stick) Plate/Pipe

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.

**Prerequisites** Take WLD-115

**Class 1.00, Lab 9.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

### WLD-121

#### GMAW (MIG) FCAW/Plate

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.

**Corequisites** Take WLD-110

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.



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#### WLD-122

##### GMAW (MIG) Plate/Pipe

This course is designed to enhance skills with the gas metal arc (MIG) welding process. Emphasis is placed on advancing skills with the GMAW process making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry.

**Prerequisites** Take WLD-121

**Class** 1.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-123

##### FCAW Plate

This course introduces flux-cored arc welding (FCAW) equipment, materials, and processes. Topics include various types of flux-cored wires, their properties and proper selection, FCAW welding equipment design and usage, equipment setup, metal properties, safety, and familiarity with the most basic types of welds commonly associated with flux-cored welding. Upon completion, students should be able to safely perform FCAW welds in various positions utilizing FCAW equipment and flux-cored wire.

**Class** 2.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 16, 2020, 12:29 p.m.

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#### WLD-131

##### GTAW (TIG) Plate

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.

**Corequisites** Take WLD-110

**Class** 2.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 4.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-132

##### GTAW (TIG) Plate/Pipe

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.

**Prerequisites** Take WLD-131

**Class** 1.00, **Lab** 6.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-141

##### Symbols and Specifications

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.

**Class** 2.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 3.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-143

##### Welding Metallurgy

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.

**Class** 1.00, **Lab** 2.00, **Clinical** 0.00, **Work** 0.00, **SHC** 2.00

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-151

##### Fabrication I



This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, cutting, joining techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment.

**Prerequisites** Take WLD-110 WLD-115 WLD-121 WLD-141;

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-215

##### SMAW (stick) Pipe

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.

**Prerequisites** Take WLD-115 or WLD-116; Take WLD-115 and WLD-116;

**Class 1.00, Lab 9.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-231

##### GTAW (TIG) Pipe

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.

**Prerequisites** Take WLD-132

**Class 1.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 3.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-261

##### Certification Practices

This course covers certification requirements for industrial welding processes. Topics include techniques and certification requirements for prequalified joint geometry. Upon completion, students should be able to perform welds on carbon steel plate and/or pipe according to applicable codes.

**Prerequisites** Take All: WLD-115, WLD-121, and WLD-131

**Class 1.00, Lab 3.00, Clinical 0.00, Work 0.00, SHC 2.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-265

##### Automated Welding/Cutting

This course introduces automated welding equipment and processes. Topics include setup, programming, and operation of automated welding and cutting equipment. Upon completion, students should be able to set up, program, and operate automated welding and cutting equipment.

**Prerequisites** Take All: WLD-110 and WLD-121

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

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#### WLD-270

##### Orbital Welding TIG/Pipe

This course introduces automated tungsten inert gas (TIG) welding hardware, equipment, and processes required to apply specific, accurate, automated, and consistently repetitive pipe welds. Emphasis is placed on proper identification of automated welding process variables, how each relates to the functionality of orbital equipment and components, and how changes in variables directly influence weld quality. Upon completion, students should be able to produce quality pipe welds through the appropriate operation and control of automated TIG welding equipment.

**Prerequisites** Take WLD 110, WLD 131, and WLD 132

**Class 2.00, Lab 6.00, Clinical 0.00, Work 0.00, SHC 4.00**

🕒 Last updated on June 28, 2019, 10:59 a.m.

# Faculty and Staff



# Faculty

## Wendy Barnhardt

Dean, Health and Education  
Ed D, Community College Leadership, Wingate University  
Master of Arts, Education, East Carolina University  
Bachelor of Science, Echocardiography, Oregon Institute of Technology  
Associate in Applied Science, Cardiovascular Sonography Forsyth Technical Community College

## Van Madray

Dean, Business, Engineering & Public Services  
Ph.D, Educational Administration, University of South Carolina  
Master of Education, Counseling, Citadel  
Bachelor of Science, Psychology, College of Charleston

## Carol Scherczinger

Dean, Arts and Sciences  
Doctor of Philosophy, Cell Biology, University of Connecticut  
Bachelor of Arts, Biology Science, Cornell University

## Robert Abbate

Master of Arts, English, University of North Carolina at Charlotte  
Master of Divinity, Dominican School of Philosophy and Theology  
Master of Arts, Teaching Catholic School, University of San Francisco  
Bachelor of Arts, Liberal Studies, Pennsylvania State University

## Jacqueline Allen

Master of Business Administration, Gardner-Webb University  
Bachelor of Science, Business Administration, Gardner-Webb University  
Associate of Applied Science, Business Administration, Mitchell Community College

## Sharon D. Allen

Master of Education, Biology, University of North Carolina at Charlotte  
Bachelor of Arts, Biology, University of North Carolina at Charlotte

## Maria Atkinson

Master of Science, Nursing, East Carolina University  
Bachelor of Science, Nursing, University of North Carolina at Chapel Hill

## Thomas A. Atwell

Associate in Applied Science, Automotive, Rowan-Cabarrus Community College

## Amy Bartram

Master of Fine Arts, Creative Writing, Queens University  
Bachelor of Arts, English, Ashford University

## Oscar Barzuna Hidalgo

Master of Business Administration, Business Administration, Gardner Webb University  
Bachelor of Arts, Accounting, University of Costa Rica

## Karen Baucom

Master of Arts, Criminal Justice, Arizona State University  
Bachelor of Science, Criminal Justice, Indiana Wesleyan University  
Associate in Applied Science, Cosmetology, Rowan-Cabarrus Community College  
Associate in Applied Science, General Occupational Technology, Rowan-Cabarrus Community College  
North Carolina Licensed Cosmetologist  
North Carolina Licensed Cosmetology Instructor

## Tony Bean

Bachelor of Science, Engineering Technology, University of North Carolina at Charlotte

## Carol Beaver

Master of Science in Nursing, Duke University  
Bachelor of Science in Nursing, Lenoir-Rhyne College

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## 2020-2021 pdf Catalog Addendum

**“Date” is the date these corrections were made to the online catalog**

Item	Correction(s)	Date
Dental Assisting D45240	BIO 175 is not an alternative for BIO 275 until Fall 2021	1/19/2021
ELC 128 Introduction to Programmable Logic Controller	ELC 117 added as prerequisite effective Spring 2021.	11/30/2020
Electrical Systems Technology A35130	ELC 119 moved from 2 <sup>nd</sup> Year Fall to 1 <sup>st</sup> Year Spring ELC 128 moved from 1 <sup>st</sup> Year Spring to 2 <sup>nd</sup> Year Fall	8/29/2020
Physical Therapist Assistant (2-year program) 45620	Accreditation statement: The Physical Therapist Assistant Program at Rowan-Cabarrus Community College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Ave., Suite 100, Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: <a href="mailto:accreditation@apta.org">accreditation@apta.org</a> ; website: <a href="http://www.capteonline.org">http://www.capteonline.org</a> . If needing to contact the program/institution directly, please call 704-216-7180 or email Anna Marie Prado, PTA Program Director at <a href="mailto:annamarie.prado@rccc.edu">annamarie.prado@rccc.edu</a> .	5/11/2021