



**Craven Community College**

**2025-2026 Catalog**

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# About Craven Community College



## Founded in 1965

An Institution of Higher Education established by authority of the North Carolina General Assembly and supported by Craven County

## Addresses & Accreditation



### **New Bern Campus**

800 College Court  
New Bern, North Carolina 28562  
252-638-7200

### **Havelock Campus**

305 Cunningham Boulevard  
Havelock, North Carolina 28532  
252-444-6005

### **Volt Center**

205 First Street  
New Bern, North Carolina 28562  
252-633-0857

Craven Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees. Craven Community College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Craven Community College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website <https://sacscoc.org/>.

Normal inquiries about the institution, such as admission requirements, financial aid, educational programs, etc., should be directed to the appropriate institution office and not to the Commission's office.

# About Craven Community College

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## Message from the President



Welcome to the 2025-2026 academic year at Craven Community College! We are honored to be a part of your educational journey and excited to support you as you take the next step toward your future.

This academic year is especially significant as Craven Community College celebrates a historic milestone—60 years of serving Craven County. Since our founding in 1965, we have been committed to evolving with the needs of our students and community, ensuring access to high-quality education, workforce training, and lifelong learning opportunities.

No matter where you are on your academic path—whether you're earning an associate degree, diploma, or certificate, preparing to transfer to a four-year university, or gaining workforce credentials to enter a new career—Craven Community College is here to support you every step of the way. Our flexible learning options, hands-on training, and strong partnerships with industry and community leaders provide the foundation for your success.

As you navigate your studies, this Academic Catalog will be your essential guide. Inside, you'll find detailed information about our programs, course descriptions, student resources, academic policies, and campus services. We encourage you to take full advantage of the support available, from academic advising and tutoring to financial assistance and student activities.

Your decision to invest in your education is an important one, and we are proud to have you as part of the Craven Community College family. We look forward to celebrating your achievements and witnessing the impact you will make in our community and beyond.

Here's to a year of growth, opportunity, and success!

Sincerely,

A handwritten signature in black ink, appearing to read "Ray Staats". The signature is fluid and cursive, with a long horizontal stroke at the end.

Dr. Ray Staats

# About Craven Community College

## Mission & Vision

### Mission

Consistent with the North Carolina Community College System, the mission of the college is to open the door to high quality, accessible educational opportunities that minimize barriers to post-secondary education, maximize student success, and improve the lives and well-being of individuals.

### Mission Statement

Craven Community College is a dynamic and responsive institution of higher education committed to improving and enriching individual lives and society through comprehensive, high quality, and accessible learning opportunities that allow students to contribute and compete in a diverse and global community.

We provide:

- **Education**, training, and retraining for the workforce, including basic skills and literacy education, occupational and pre-baccalaureate programs;
- **Support** for economic development through services to and in partnership with business and industry; and
- **Services** to communities and individuals which improve the quality of life.

The College fulfills its mission through:

### Adult General, Basic, and Secondary Education

- Courses and services for students who desire to complete a high school equivalency credential or improve their adult basic education, literacy, and English language skills, or for enrolled high school students seeking acceleration opportunities

### Cultural, Citizenship, and Community Enrichment

- Activities, services, group travel, and special projects in response to cultural needs and quality of life interests of community populations and for the leisure enjoyment and enrichment of adults and youth served

### College & Career Readiness Studies

- Courses and services for students in need of further growth and development of academic and basic skills preparation for acceptance into a curriculum and to succeed in college programs

### Economic/Workforce Development Education and Special Training

- Customized courses specifically designed for, and in collaboration with, business, industry, and the military, including workforce readiness, job enhancement, and technical skill development

### Career and Technical Education

- Programs, courses, and services for students who plan to enter the workforce or upgrade their career training, professional skills, and work performance

### Student Development

- Programs and services to support and enhance student academic, career, and personal skill development and growth, and assure success for diverse and ever-changing student populations

### University-Parallel Education

- Programs and coursework for the freshman and sophomore years of an undergraduate education for students who plan to continue studies toward the baccalaureate or pursue postsecondary liberal arts studies

### Vision Statement

Purpose-driven teaching and learning for Craven County.

## About Craven Community College

Craven Community College serves Craven County's 102,000 residents and its military population through comprehensive credit and non-credit learning opportunities. The College plays a significant role in the county's education, training, and enrichment needs.

With locations in both New Bern and Havelock, as well as a strong presence at Marine Corps Air Station (MCAS) Cherry Point, Craven CC is committed to meeting Eastern North Carolina's education and training needs. The College offers a wide range of associate degree and certificate programs, college transfer courses, career readiness offerings, partnerships with numerous four-year universities, developmental studies, and College & Career Readiness. The College's workforce training capabilities also include the Volt Center, a campus located in New Bern that specializes in trades such as carpentry, welding, plumbing, HVAC, and masonry.

In addition to offering traditional seated classes in New Bern, Havelock, and Cherry Point, Craven CC has a robust distance education program that allows

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students to take courses online. The College has several degree, diploma, and certificate programs that can be completed online.

Craven CC enrolls about 3,600 students in its curriculum (credit) educational programs each year. More than 9,000 students are served in the college's Workforce Development programs annually.

Craven CC offers two-year associate degrees, including Associate in Arts, Associate in Arts in Teacher Preparation, Associate in Fine Arts in Visual Arts, Associate in Fine Arts in Music, Associate in Science, Associate in Science in Teacher Preparation, Associate in Applied Science, and Associate in General Education. The College also offers a number of diploma and certificate options, particularly in its technical programs. High school students can enroll in some college-level courses at Craven CC at no cost. Students should consult their high school guidance counselors for more information.

Craven CC has agreements that enable students to earn Baccalaureate Degrees from four-year public and private colleges and universities.

Accredited by Southern Association of Colleges and Schools Commission on Colleges, academic credits can be earned through full- or part-time study in the day, evening, or online.

The New Bern Campus is home to Craven Early College, while the Havelock location is home to Early College EAST. High school freshmen who remain enrolled in these innovative programs for five years are able to graduate with both their high school diploma and their two-year associate degree or two years of transferable college credit at no cost.

Consistent with its mission to meet the higher education and training needs of students, the College is committed to academic excellence, customer service, and leadership. With the support of faculty and staff

and comprehensive support services, each of our students is provided hope, opportunity, and preparation for both a career and a productive life.

## History

Craven Community College was created as an extension of Lenoir Community College by the 1965 North Carolina General Assembly and will celebrate its 60th anniversary on July 1, 2025. Granted independent status as Craven Technical Institute in 1967, the College was served by Dr. Thurman Brock as President in the historic Harvey House in downtown New Bern. In 1971, the college moved its operations to its present 100-acre location, and in 1973 the Institute was granted community college status. That same year, the College opened an office on the Marine Corps Air Station (MCAS) Cherry Point. In January 2004, the 24-acre Havelock location, including the Institute of Aeronautical Technology, opened for classes.

The College's most recent addition, entitled the Volt Center, opened in 2019 as a workforce training facility near downtown New Bern. Looking ahead, the College plans to open a new Corporate Training Center in the spring of 2026 on the New Bern campus. Development is also underway for a new Public Safety Training Center that will be located on a 30-acre lot near the Craven County Industrial Park.

The College has been served by five Presidents over its 60-year history, including: Dr. Thurman Brock, Dr. Steve Redd, Dr. Scott Ralls, Dr. Catherine Chew, and, currently, Dr. Raymond Staats.

Community colleges have their own local Boards of Trustees. Eight members are appointed by the General Assembly and four members are appointed by the Craven County Board of Commissioners. In addition, the Student Government Association president and Craven CC Foundation chairperson serve as nonvoting ex officio trustees.

## General Admissions Procedures

Craven Community College operates under an open-door policy for applicants who are high school graduates and whose admission eligibility conforms to North Carolina law and North Carolina Community College System directives. This minimum requirement is met by graduation from high school or by possession of a state High School Equivalency Credential (GED or HiSet) or an Adult High School Diploma. Current high school students can enroll through the NC Career and College Promise program; see section on North Carolina Career and College Promise.

Some degree programs have specific requirements for admission. A physical exam may be required when deemed necessary by college officials, particularly in limited admissions programs.

## Readmission Policy

### Returning Students

Students who have not been enrolled at Craven Community College for more than one year are required to submit a new application for admission and complete the Residency Determination Service (RDS) process to establish their residency status. A new application may be necessary to update student information, confirm program availability, or ensure compliance with any admission or policy changes.

### Readmission of Servicemembers

Craven Community College complies with **20 U.S.C. 1091c** and any applicable federal regulations regarding the readmission of servicemembers. In accordance with this law, the college will promptly readmit any student who was previously admitted but did not attend or could not continue attendance due to service in the uniformed services. Such students will be readmitted with the same academic status they had before their military service to ensure a seamless return to their educational pathway.

For the most up-to-date information on servicemember readmission rights, students are encouraged to refer to **20 U.S.C. 1091c** or consult the Admissions Office for assistance.

## Admission Process

### 1. Residency Determination

Each prospective student must complete the North Carolina Residency Determination Service (RDS) [online application](#). This is used to determine whether a student qualifies for in-state or out-of-

state tuition as defined per Session Law 2013-360. Upon completion of the RDS application, students receive a personal Residency Certification Number (RCN). Students should retain this number for their records.

### 2. Application

Prospective students [apply online at the Craven CC website](#) by choosing the educational status that best describes them. Former Craven Community College students who were previously enrolled but have not attended the College for one year or more, may be required to complete a new residency and admissions application. Former Craven Community College students should contact Admissions before completing a new application.

### Important Note: Student Email

Each student taking significant steps to enroll at the College receives a student Outlook email account, the college's official means for contacting students. Information about this email account is included in the congratulatory email sent to each qualifying applicant. Additional information critical to student success, financial aid, and academic standing is communicated through student email accounts. Students are responsible for regularly checking this email.

### 3. Transcripts

**High School, Homeschool, and High School Equivalent Transcripts:** An official High School or High School equivalent transcript from an accredited institution recognized by the Department of Education is required of each prospective student. The transcript must show the official graduation or High School Equivalent certification date. In addition to the official transcript, graduates of a homeschool within the state of North Carolina must submit a copy of the homeschool's approved registration form.

GED transcript requests may be made by [requesting your transcript online at the GED website](#) (click "Request your official transcript here").

The requirement to provide a High School transcript or High School Equivalent certificate may be waived if an applicant has an associate degree or higher verified by an official transcript.

*Please note: Official High School transcripts are those received by mail, by email sent directly from a High School Representative (cannot be forwarded), or hand delivered to Craven Community College. Hand delivered and mailed transcripts must be in the original, sealed envelope from the awarding*

# Admissions

*institution. Electronic High School transcripts should be sent to [admissions@cravencc.edu](mailto:admissions@cravencc.edu) by a school official of the awarding school, through an official system such as Parchment®, E-Script®, or Scribbles®, or through the CFNC (College For North Carolina) if the prospective student graduated from a public North Carolina High School.*

**College Transcripts:** Prospective students must submit an official copy of transcripts from all previous post-secondary institutions if they are using VA educational benefits, applying for a Health Science program, or wish to receive transfer credit. Only previous college courses completed with a grade of "C" (2.0) or higher will be eligible for transfer consideration. Please send all official college transcripts to the Registrar's Office.

*Please note: Official college transcripts must also meet certain criteria. Hand delivered and mailed transcripts must be in the original sealed envelope from the awarding institution. Please have electronic transcripts sent to [studentrecords@cravencc.edu](mailto:studentrecords@cravencc.edu). Transcripts submitted by email must be sent using an official system such as Parchment®, E-Script®, or Scribbles®.*

Transfer applicants who have attended foreign institutions must submit their transcripts to a credential evaluation agency that is a member of the National Association of Credential Evaluation Services (NACES) for translation and a course-by-course evaluation. The evaluation agency must send an official transcript evaluation in English to the College. See a [list of NACES member agencies](#).

#### 4. Placement Testing

Some students **may** be required to take the College Placement Test prior to registering for courses. The Placement Test assesses students' readiness for college-level courses by evaluating their reading, writing, and mathematics skills.

The College Placement Test is computerized. Students may retake the test only once and only with permission from an academic advisor. Students with documented disabilities may make special arrangements to take the test by contacting the ADA Coordinator.

Placement tests may be waived based upon various qualifying scores, such as unweighted high school GPA, High School Equivalent score, SAT, ACT, or College transfer credit.

#### 5. New Student Orientation

Applicants seeking to earn a certificate, diploma, or an associate degree must complete new student orientation. During orientation, new students learn valuable information about Craven CC and the resources available to assist them in reaching their goals. Students will acquire tips to help them succeed in college and information to assist them with the advising and registration process. Information regarding available methods of new student orientation is available at <https://cravencc.edu/NSO>

#### 6. Advising

New and enrolled students with fewer than 12 college credit hours must contact an advisor to discuss their personal and professional goals, develop an academic plan, and receive guidance on course selection before registering.

## Admissions Classifications

**New and Returning Students:** Students who have completed all admissions requirements and are enrolled in a Program of Study.

**Provisional Students:** Students who have not completed all admissions requirements may be admitted and enrolled for one semester with permission of the Director of Admissions and Student Records. Provisional students will be allowed to register for subsequent semesters only upon completion of admissions requirements.

**Special Credit/Visiting Students:** Students not seeking a degree, diploma, or certificate may be admitted and enrolled as Special Credit/Visiting Students. These students must complete the residency determination interview process, an application for admission, and provide evidence of prerequisite satisfaction through either official or unofficial transcripts.

- **Special Credit Students** are students often enrolled for the purpose of gaining special skills or for personal enrichment. The prerequisite requirements must have been successfully completed at their institution with a grade of C or better.
- **Visiting Students** are students enrolled at other institutions. They will be enrolled for the purpose of transferring courses to their current college or university.

A Special Credit/Visiting Student wishing to be reclassified as a Regular Student must complete all admissions requirements as indicated for New and Returning Students.

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**International Students:** Craven Community College is authorized under federal law to enroll non-immigrant students. Separate application materials are available for students wishing to study under an F-1 visa only. All international student admission inquiries should be directed to [internationalstudents@cravencc.edu](mailto:internationalstudents@cravencc.edu) or to [Craven's International Student Information](#).

**Freshman:** A student who has earned fewer than 30 semester hours of credit

**Sophomore:** A student who has earned more than 30 semester hours of credit

**Full-time Student:** A student who is registered for 12 or more semester hours of credit

**Part-time Student:** A student who is registered for fewer than 12 semester hours of credit

## Residency Status

Students are classified as residents for tuition purposes if they have established the legal residence requirements determined by the Residency Determination Service (RDS). Special consideration may be made by the Residency Determination Service for active-duty military and their spouse or dependents. Admissions specialists are available to assist each student with ensuring they receive an accurate residency determination or applicable waiver.

## Limited Admissions Programs

Students seeking admission to Limited Admission Programs must meet special admissions criteria and requirements. The following programs have limited admissions: Aviation Systems Technology, Basic Law Enforcement Technology, Cosmetology, Esthetics Technology, and Health Programs. Information on admission criteria and requirements can be found on the website for the specific academic program.

### Application Deadlines

#### Esthetics Technology

Fall Admission  
Accepted Jan. 1 - Apr. 15

#### Health Programs:

All applications, transcripts, placement test scores, and other documentation must be received before the applicant's information will be reviewed.

#### Associate Degree Nursing (ADN)

Spring Admission

Mar. 1 – Aug. 31  
Fall Admission  
Sept. 1 – end of February

#### LPN to ADN Transition

Spring Admission  
Mar. 1 – Aug. 31  
Fall Admission  
Sept. 1 – end of February

#### Practical Nursing (PN) [Day and Evening]

Fall Admission  
Sept. 1 – end of February

#### Health Information Technology

Fall Admission  
Feb. 1 – June 30

#### Medical Assisting

Fall Admission  
Feb. 1 – June 30

#### Physical Therapist Assistant

Fall Admission  
Feb. 1 – May 31

## North Carolina Career and College Promise

### College Credit for Traditional and Non-traditional (Private/Home-Based) High School Students

The North Carolina Career and College Promise (CCP) initiative gives high school students a tuition-free jump-start on their college and career plans. This program provides structured opportunities for eligible public, private, and home-schooled students to pursue opportunities that lead to college certificates, diplomas, or degrees while learning entry-level job skills.

Leon's Law is a North Carolina law that requires community colleges to share certain educational records of minor students with their parents or guardians. This law aims to ensure parents can support their children as they transition to higher education, particularly in dual enrollment programs where high school students take college courses. Craven Community College complies with all requirements of SL 2025-46/HB 378, taking effect in the 2025-2026 Academic Year.

### Career-Technical Education Pathway

High school students interested in earning credits toward a certificate, diploma, or state/industry-

# Admissions

recognized workforce credential are encouraged to take advantage of the CCP program's Career-Technical Education (CTE) pathways.

Certificates in the CTE pathway lead to the completion of 12-30 credit hours, depending on the chosen program. Generally, 30 semester hours equal 8-10 college courses, depending on the credit hours required for specific courses.

Credentials earned through CTE pathways can be used for entry-level job opportunities and applicable internships in the certified field.

## Enrollment Requirements

To be eligible for enrollment in a Career-Technical Education Pathway, high school students must meet the following criteria:

- Be a second-semester high school freshman **OR** a sophomore, junior, or senior, **AND**
- Have an unweighted GPA of 2.8 or higher on high school courses **OR**
- Have the recommendation of the high school Career Development Coordinator, High School Principal, and Chief Academic Officer or Chief Student Development Administrator.
- Per the MOU signed in 2025, Craven County Public Schools students are eligible to participate in the Career and College Promise Program starting their junior year.

To maintain eligibility for continued enrollment, a student must:

- Continue to make progress toward high school graduation, and
- Maintain a 2.0 GPA in college coursework after completing two courses.

## Career-Technical Education Pathways include:

- Automotive
  - Business Administration
  - Computer-Aided Drafting
  - Cosmetology
  - Criminal Justice
  - Early Childhood Education
  - Electronic Engineering Technology
  - Health Information Technology
  - Industrial Systems
  - Information Technology & Coding
  - Machining Technology
  - Medical Assisting
  - Small Business Accounting
  - Welding
- AND MORE!*

## College Transfer Pathway

Eligible high school juniors and seniors may enroll in a College Transfer Pathway at Craven Community College and complete some of the universal general education transfer core classes required during the first two years of a four-year degree.

The College Transfer Pathway leads to the completion of 30-plus semester hours of college transfer courses, including courses in English and Math. Generally, 30 semester hours equals 8-10 college courses, depending on the credit hours required for specific courses.

Academic credits earned through the CCP College Transfer Pathways allow students who continue into post-secondary education after high school to complete college degrees in less time.

## Enrollment Requirements

To be eligible for enrollment in the College Transfer Pathway, high school students must meet the following criteria:

- Be a high school junior or senior, and
- Have an unweighted GPA of 2.8 or higher on high school courses, **OR**
- If GPA is between 2.0 – 2.8: Demonstrate college readiness on an assessment or placement test (PSAT, SAT, ACT, Pre-ACT, or Accuplacer) by meeting or exceeding specific test scores in English, reading, and math.

To maintain eligibility for continued enrollment, a student must:

- Continue to make progress toward high school graduation, and
- Maintain a 2.0 GPA in college coursework after completing two courses.

Upon completion of the College Transfer Pathway, a student may continue to earn college transfer credits leading to the completion of the applicable Associate Degree while enrolled in high school.

## The College Transfer Pathways include:

- Associate Degree Nursing (ADN)
- Associate in Arts Pathway
- Associate in Engineering
- Associate in Fine Arts in Visual Arts
- Associate in Science Pathway
- Associate in Arts in Teacher Preparation
- Associate in Science in Teacher Preparation

# Admissions

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[More information on the North Carolina Career and College Promise Pathways can be found here.](#)

## Cooperative Innovative High School (Early College) Pathway

### College Credits for Craven Early College and Early College EAST Students

Craven Early College High School (CEC) and Early College EAST (Eastern Applied Sciences and Technology) High School are headquartered on the Craven Community College New Bern and Havelock campuses, respectively, and were created out of a strong partnership between Craven County Schools and Craven Community College. Each school's small size supports innovative ideas, creative teachers, and attention to detail.

The structure of Cooperative Innovative High Schools fosters academic acceleration, personalization, and connections to workplace knowledge and skills. Extensive support is provided to each student and

these schools are centered on improving graduation rates and preparing students for life-long learning and entry into high-skill careers.

Students who attend one of these five-year programs will have the opportunity to graduate with a high school diploma and up to two years of college credit toward a bachelor's degree or an associate degree (at no cost to the student) in any of Craven CC's university-transfer degrees including, but not limited to, an Associate in Arts, Associate in Science, or Associate in Engineering; or a certificate, diploma, or Associate in Applied Science in one of Craven CC's career programs.

- Craven Early College and Early College EAST enroll new classes of ninth-graders every fall; the application period occurs during the preceding spring. Acceptance is based on a lottery system.
- Craven Early College and Early College EAST students do not have to pay tuition and are eligible for transportation provided by Craven County Schools.
- These innovative programs do not follow Craven County Schools' traditional school calendar. Both CEC and ECE follow Craven County Schools' early college calendar, which aligns closely with Craven CC's academic calendar.

# Tuition, Financial Aid, Scholarships, and Military Benefits

## Tuition

Tuition and additional or special college fees that apply to in-state and out-of-state students are subject to change. A payment plan is available for students which offers flexible payment options each semester. The College provides financial aid and scholarship opportunities for students who qualify.

### Tuition 2024-2025

In-State (per semester hour)	\$76.00
Maximum In-State Tuition	\$1,216.00
Out-of-State (per semester hour)	\$268.00
Maximum Out-of-State Tuition	\$4,288.00

## College Fees

Computer Use and Technology, per semester	\$48.00
Student Activity – Fall and Spring	\$40.00
Student Activity - Summer	\$20.00
Travel Insurance for Study Abroad	up to \$100.00
Distance Learning Fee (Hybrid, Hyflex or Online)	\$30.00
Transcript Fee (each)	\$10.00
Returned Check, per check	\$20.00
Summer supply fee, per course	\$10.00
Campus Access, Parking & Security, per semester	\$15.00
Curriculum Student Accident Insurance, per semester	\$1.20
WFD Student Accident Insurance, per semester	\$0.60
Placement Retesting Fee	\$3.00
Placement Test Fee for non-students	\$5.00
Bibliu Ebook Fee per book per course	90.00
<b>Graduation:</b>	
Graduation Fee (all graduating students; includes processing, printing, and digital copy of one primary credential plus mailing of same)	\$25.00
Secondary Credential Print (printing, mailing, and digital copy of secondary credentials)	\$15.00
Secondary Credential Digital Only Print (digital copy of one secondary credential)	\$10.00
Diploma Reprint (Printing, mailing and digital copy of previously printed diplomas)	\$15.00
Cap, Gown, and Tassel (approximate and non-refundable)	\$30.00
Associate Degree Hood (approximate and non-refundable)	\$30.00
<b>Library Fines:</b>	
Per day for overdue books	\$0.10
Per day for overdue DVD	\$1.00
Per day for overdue Oculus Quest virtual reality headsets	\$5.00
Printing/Copying - Students (first 10 pages per day are free)	\$0.10
Printing/Copying - Non-Students	\$0.15

Replacement library card	\$1.00
Test proctoring (non-students)	\$25.00
NABCEP Testing & Proctoring Fee	\$150.00
<b>Limited Admission Programs:</b>	
Nursing Admissions Testing (TEAS) for Craven CC students	\$100.00
Nursing Admissions Testing (TEAS) for other colleges	\$125.00
Nursing Admissions Testing (TEAS) Retake fee	\$125.00
Professional Liability Insurance (Curriculum & WFD) – annual fee	\$16.00
Nursing Badge Replacement	\$15.00
Nursing Lab fee	varies by cohort
Surgical Technology TABE entry test	\$5.00
Surgical Technology TABE Retake fee	\$10.00
BLET TABE Entry Testing	\$5.00
BLET TABE Retake fee	\$10.00
Basic Law Enforcement Lab Fees	\$65.00
EMT TABE Entry Testing	\$5.00
EMT TABE Entry Testing Retake fee	\$10.00
Paramedic TABE Entry Testing	\$15.00
Paramedic TABE Entry Testing Retake fee	\$25.00

## Course-Specific Fees

Many courses have special fees associated with them. These are listed in the Course Description section with the applicable course.

*\*Fees are subject to change upon approval of the College Board of Trustees. Tuition rates are subject to change by action of the N.C. General Assembly.*

## Student Payment Plan

For \$30 per semester, students may spread the cost of their tuition and fees over a three-month period without interest charges by individually contracting with Nelnet. Consult the Student Accounts Office for details.

# Tuition, Financial Aid, Scholarships, and Military Benefits



## Refund Policies

1. A refund shall not be made except under the following circumstances:
  1. A 100% refund shall be made if the student officially withdraws prior to the first day of classes of the academic semester or term as noted in the College calendar. Also, a student is eligible for a 100% refund if the class in which the student is officially registered is cancelled due to insufficient enrollment.
  2. A 75% refund shall be made if the student officially withdraws from the class prior to or on the official 10% point of the term.
  3. For classes beginning at times other than the first week (seven calendar days) of the semester, a 100% refund shall be made if the student officially withdraws from the class prior to the first class. A 75% refund shall be made if the student officially withdraws from the class prior to or on the 10% point of the class.
  4. A 100% refund shall be made if the student officially withdraws from a contact hour class prior to the first day of class of the academic semester or term or if the college cancels the class. A 75% refund shall be made if the student officially withdraws from a contact hour class on or before the tenth calendar day of the class.
2. To comply with applicable federal regulations regarding refunds, federal regulation will supersede the state refund regulations stated in this rule.
3. Where a student, having paid the required tuition for a semester, dies during that term (prior to or on the last day of examinations of the College the student was attending), all tuition and fees for that semester may be refunded to the estate of the deceased.
4. For a class which the College collects receipts that are not required to be deposited into the State Treasury account, the College shall adopt local refund policies.

## Tuition Refund and Appeal Procedure

To be eligible for a refund, students must do one of the following **on or before the published last day to drop for tuition refund** each semester/session:

- Drop the class(es) through the web,
- Execute an official drop form which must be processed by the Enrollment Services/Records Office, or
- Provide written permission to a representative who acts on behalf of the student.

Tuition refund appeals are accepted by the Associate Vice President for Students by e-forms and are reviewed by the appeals committee. Appeals that do not represent a sound basis for reimbursement will be denied. Notification of approval/denial of appeals normally occurs by mail within two to three weeks. Craven Community College will promptly refund tuition and/or cancel a financial charge from a student's account provided the student meets the requirements outlined below.

- **Level I Determination:** Initial determination of tuition appeal is made by committee members which include staff and faculty. Students may submit an appeal by e-form to the Associate Vice President for Students.
- **Level II Determination:** Level I must be denied in order to request a Level II intermediate review. A Level II intermediate appeal may be initiated by a student in writing and is reviewed by the Associate Vice President for Students. The Associate Vice President for Students will respond to an intermediate appeal within 10 working days. The decision made at the intermediate level is final.

## Submitting an Appeal

Refund appeals will not be considered unless the student has officially withdrawn from the class(es) and was making satisfactory progress in the class(es) at the time of withdrawal. Students who are receiving financial aid should check with the Financial Aid Office prior to withdrawal to determine what, if any, effect this action may have on future financial aid eligibility. If a student has a grade other than a "W", the student must first contact the instructor and/or the academic dean to determine whether or not the student is eligible to have the grade in question changed to a "W". If the change is granted, it must be submitted to the Student Services/Records Office, and processed by that office. All tuition appeals must be submitted with supporting documentation using e-forms to the Associate Vice President for Students within three years from the beginning of the semester for which the charge was incurred.

# Tuition, Financial Aid, Scholarships, and Military Benefits

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

- Extended incapacitation/hospitalization of the student (which caused the student to miss 20% or more of scheduled instruction) documented by a physician's statement on the doctor's official letterhead (copies of the student's medical records will not be accepted). This must be an unscheduled medical emergency diagnosed after the last day to drop for tuition refund. The physician's letter (on letterhead) must include the date the student was first seen for the medical condition, as well as the beginning and ending date the student was incapacitated/hospitalized and must state that the student was physically unable to attend classes during this period of time. A letter that does not specifically state, "the student was physically unable to attend classes" will not be grounds to approve an appeal. **Pre-existing conditions are not justifiable.**
- Extended incapacitation/hospitalization or death of a student's immediate family member (which caused the student to miss 20% or more of the scheduled instruction) – verified with appropriate documentation. Immediate family is defined as: father, mother, spouse, child, sibling, stepfather, stepmother, stepchild, stepbrother, stepsister, or legal guardian
- Involuntary changes in military orders that result in the active-duty member moving outside the Craven County area; either documented by the Commanding Officer or the student must provide valid and properly endorsed orders (includes dependent(s) enrolled at Craven Community College). Orders must be Permanent Change of Duty Orders. Short-term orders (for more than 20% of the class sessions) associated with a National Emergency may qualify.
- Error in academic advising by Craven CC Personnel resulting in inappropriate course enrollment. Requests must be initiated through the Craven CC office where student was advised.
- Late notifications of denial to a specific degree program-with supporting documents.
- Institutional errors by Craven CC that cause the delay of administrative processes relative to registration or the delivery of financial aid funds.
- Administrative difficulties with internships, placements, or practicums involving the single enrollment of a student – with supporting material from placement official.
- Technological difficulties that can be substantiated by reliable evidence.

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

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

Refund policies are determined by the NCCCS, and dates are published in the course schedules each semester and on the college website.

For additional information about refunds, contact the Student Accounts Office staff at 252-638-7268.

## Financial Aid Refund Policy

Title IV Federal Financial Aid students who withdraw or stop attending the college during the first 60% of the semester will have their financial aid recalculated according to the Higher Education Amendments of 1998, 34 CFR part 668.22. Some grant recipients may owe repayment to both the institution and the Federal government as the result of this recalculation.

Students who receive financial aid from any of the following sources: Federal Programs (Title IV)-Pell Grant, Supplemental Education Opportunity Grant (SEOG), and State Grants may be responsible for repaying a portion of their aid if they drop or stop attending classes during the refund period.

# Tuition, Financial Aid, Scholarships, and Military Benefits

Withdrawal from classes may also affect eligibility for financial aid for the following semester or academic year. Students will be notified if monies are due the College.

## Financial Indebtedness

Any student who fails to resolve any outstanding debt to the college (i.e., tuition, bookstore, library fees, parking fine, graduation, promissory note, financial aid, equipment, supplies debt, or any other required payment) will not be permitted to register or receive graduation diplomas. In addition, past due accounts will be turned over for collection through the NC Dept. of Revenue's Setoff Department program, through the State Employees Debt Collection Act and a collection agency.

## Financial Aid

A variety of financial aid options are available to Craven Community College students. Eligibility for these programs depends on the student's academic progress and family income and assets. Due to the length of processing time, applicants are encouraged a) to apply to the College and b) to submit necessary paperwork as early as possible for financial aid consideration. Please do not wait to be formally accepted by Craven Community College before applying for aid. Priority consideration is given to students whose applications are completed by June 1st.

The College's Financial Aid Office is available to assist students in researching and applying for financial aid and for assistance with completing a Free Application for Federal Student Aid (FAFSA).

### Financial Aid General Eligibility Requirements

To be considered for financial aid at Craven Community College, a student must:

- be officially admitted
- be a U.S. citizen or eligible non-citizen
- meet the minimum academic criteria specified for each financial aid program (see "Academic Progress" in this section)
- not be in default of any prior student loan or owe monies to any Federal Student Aid Program
- be enrolled in an eligible degree program
- be registered by the Pell census date of a term or before the FAFSA processed date
- have a valid Social Security Number (unless from the Republic of the Marshall Islands, the Federated States of Micronesia, or the Republic of Palau)
- demonstrate financial need

- be a high school graduate or have a General Education Development (GED) certificate or Adult High School Diploma (ADHS)

For federal financial aid programs, an applicant must meet one of the following conditions in order to be considered an independent for the 2025-2026 academic year:

- be born before January 1, 2002
- be a veteran of the U.S. Armed Forces
- be married (and not separated)
- be an orphan or a ward of the court, or have been a ward of the court until age 18
- be enrolled in a graduate or professional educational program
- have legal dependents (other than a spouse and children) who receive more than one-half their support from you
- be currently serving on active duty in the U.S. Armed Forces
- have children who receive more than one-half of their support from you
- have been in foster care since turning age 13
- currently or in the past, be an emancipated minor
- currently be or have been in a legal guardianship
- currently be homeless or at risk of being homeless

### How to Apply

In order to apply for financial aid, a student must file a Free Application for Federal Student Aid (FAFSA). [Students must file the FAFSA electronically.](#) There is no fee with this application. Early Fall semester applicants with need who file before March 31 will receive first consideration for campus-based aid programs, which are subject to funding limitations. Late applications are placed on a waiting list throughout the year. A student may receive one source of aid or a combination of federal and state aid. However, the amount of aid received is limited by the student's educational cost, student aid index, and aid availability. If selected for verification, the student and family must provide documentation, including but not limited to 2023 taxable income (IRS tax return; with W-2s) and non-taxable income (disability, child support, etc.). All non-taxable income information provided should be representative of the prior calendar year (2023 for the 2025-2026 aid year). See "Verification" for additional information.

### Transfer Students

Craven Community College encourages all transfer students to seek a credit evaluation of coursework taken at prior institutions in order to determine if they have satisfied the necessary academic progress criteria to qualify for financial aid.

# Tuition, Financial Aid, Scholarships, and Military Benefits

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## Regulations Governing Federal Assistance

Students who receive financial aid must attend all courses for which they are registered during a semester to receive funds. If the Financial Aid Office learns that a student never attended or stopped attending a particular course (or courses), that student's financial aid may be affected.

## Verification Policy

The Financial Aid Office is required to check the accuracy of information reported on the Free Application for Federal Student Aid (FAFSA) application for those students selected by the Department of Education. This review process is called Verification. Craven Community College has the authority to select students for verification if there is any information believed to be incorrect and/or to resolve any conflicting information to determine eligibility for federal and state financial aid.

## Student Verification Notification

Students selected for verification will be notified via their student email address. The student will be able to access their account under the financial aid self-service portal to see a detailed list of documents needed to complete the verification process. Students should make an appointment to bring in needed documentation.

If you cannot or will not use the IRS Data Retrieval tool, a tax filer must provide a signed copy of their IRS Tax Return or a Tax Return Transcript from the IRS to verify the income information on the FAFSA. For the 2025-2026 Academic Year, the tax return for 2023 is used. Independent students and the Parents of Dependent students who are non-tax filers for the year requested must request a "Verification of Non-Filing" letter from the IRS and provide a copy of their W-2's for any income earned from work. Filers of amended returns must provide a signed copy of the 1040x along with a Tax Return.

## Corrections to FAFSA Data

The Financial Aid Office will compare the information from the verification documents with the reported information on the FAFSA application. If any corrections need to be made, the financial aid advisor will submit the correction to the Department of Education.

Once the verification process is completed and corrections submitted, the advisor will check to ensure all admissions to Craven Community College are complete and all other requirements met. Then the student's financial aid will be packaged and the student is notified via student email of their financial aid offer. The student has the option of electing to receive a

physical offer letter in the mail by making this election in their account. The student can utilize their Financial Aid Self-Service Portal to view their offer letter electronically.

For faster processing, we suggest your FAFSA and verification items are submitted to the Financial Aid Office by June 1st prior to the start of the Fall semester of the academic year you are attending. Please allow at least 3 weeks processing time once we receive your FAFSA.

## Consequences of Failing to Submit Documents

The Financial Aid Office will not complete a financial aid offer until all verification documents are submitted, any corrections have been made and received back from the US Department of Education, all conflicting information has been resolved, and all admissions to Craven Community College are complete.

Failure to submit required documents before the deadline date for the academic year published in the Federal Register will result in forfeiture of financial aid funds. The deadline for the 2025-2026 Academic Year is mid-September 2026 or 120 days after the last day of the student's enrollment, whichever is earlier.

## Fraud Referrals

If a financial aid advisor suspects that a student has misreported information or altered documentation to fraudulently obtain federal funds, they must first report this to the Executive Director of Financial Aid. The director will investigate the situation, and if the director believes there is a fraudulent situation, all information must be forwarded to the Office of Inspector General of the Department of Education and/or the local law enforcement agency.

The director will meet with the student, discuss any concerning information with the student, and review all documentation presented. After the meeting and review, if the director determines that there is suspected fraud on the part of the student, the director will contact the Department of Education's Inspector General's office and provide all documentation regarding the suspected fraud for further investigation.

# Tuition, Financial Aid, Scholarships, and Military Benefits

Fraudulent situations should be reported to the hotline of the Department of Education Inspector General at 202 755-2270 or 1-800-MIS-USED.

## Federal Financial Aid Programs

### Federal Pell Grant

The Federal Pell Grant provides grants up to \$7,395 per year to all eligible applicants.\* [Students must file a Free Application for Federal Student Aid \(FAFSA\)](#) after December 01, 2024. The application should list Craven Community College (school code 008086) as one of the colleges. The Financial Aid Office will receive the FAFSA information electronically in order to determine eligibility for all Federal Aid. Although the federal government allows the FAFSA to be filed by June 30, 2026, the receipt of a valid result must be on file with the Craven Community College Financial Aid Office by the student's last day of class.

For students required to take developmental courses, federal aid funds will pay for only 30 attempted credits of developmental study. Students holding baccalaureate degrees are ineligible for the Federal Pell Grant, but must file the FAFSA to receive other aid consideration.

*\*Subject to change.*

### Federal Supplementary Education Opportunity Grant (FSEOG)

High-need students may be eligible to receive FSEOG grants of \$1,200 per year. Students who have earned a bachelor's degree are not eligible. The FAFSA is required and funding is limited.

### Federal Work Study (FWS)

Eligible students may work part-time while in college to help defray their educational cost. Salary starts at \$12.00 per hour (subject to change) for up to 29 hours of work per week. The FAFSA is required and funding is limited.

## Satisfactory Academic Progress Standards – Federal Programs

The federal government has established satisfactory academic progress standards for the following Title IV federal student aid programs: Pell Grant, FSEOG, and federal work-study.

Satisfactory academic progress requirements are monitored at the end of every enrollment period.

The requirements are:

1. Maintain a minimum cumulative Grade Point Average (GPA) of 2.0.
2. Pass two-thirds (67%) of all coursework attempted. Coursework attempted includes withdrawals, automatic withdrawals, incompletes, repeated courses, developmental coursework, or courses taken at another institution, and courses taken at Craven CC prior to the receipt of Federal Student Aid.
3. Complete degree requirements within 150% of the published program length. All coursework accepted for credit in the program of study will count toward the maximum. Students who exceed the maximum time frame will not be eligible for any additional Federal Student Aid.

Students enrolled in all associate degree programs are allowed a total of 90 credits attempted.

Total credits attempted is defined as all credits attempted at Craven Community College after the drop/add period, including withdrawals, repeated coursework, incompletes, failed courses, medical withdrawals, and any transfer credits accepted toward your degree.

## Appeal Process / Reinstatement of Federal Aid Eligibility

Based upon mitigating circumstances, students may be granted exceptions to the College's satisfactory academic progress policy. To apply for an exception, students must:

- Submit a Satisfactory Academic Progress Appeal Form.
- Submit a typed letter explaining the situation and their education goals.
- Submit documentation (doctor's note, police report, social services report, obituary, etc.) with their request.

Students will be notified through college email if an exception has been granted or denied. Only one appeal may be made per academic termination.

If an appeal is approved for Grade Point Average (GPA), or passing percentage, the student is required to meet

# Tuition, Financial Aid, Scholarships, and Military Benefits

with the Director of the Academic Support Center, or the TRiO staff if you are a TRiO participant, before aid can be released.

## State Aid

### The Next NC Scholarship

The Next North Carolina Scholarship combines federal and state aid for qualifying students at a North Carolina Community College with an Adjusted Gross Income (AGI) of \$80,000 or less and an Student Aid Index (SAI) of \$7,500 or less, as reported on the FAFSA, to guarantee at least \$3,000 per academic year.

#### Eligibility

- Be a North Carolina resident who is eligible for in-state tuition
- Enrolled for at least 6 credit hours
- Household with Adjusted Gross Income (AGI) of \$80,000 or less
- Be meeting the Satisfactory Academic Progress (SAP) standards of the school you plan to attend
- Be admitted, enrolled, and classified as an undergraduate student in matriculated status in a degree, certificate, or diploma program at a North Carolina Community College.
- Applicants must complete the Free Application for Federal Student Aid (FAFSA) with a resulting Student Aid Index (SAI) of \$7,500 or below

### Child Care Program

The North Carolina General Assembly appropriates funds for child care services for student parents in community colleges. This is approved only for a semester at a time and single parents receive first priority. Applicants must have demonstrated financial need, be enrolled at least half-time in a college transfer, technical, or vocational degree or diploma program at Craven Community College, and be willing to complete a Free Application for Federal Student Aid (FAFSA). Applicants must not be receiving child care funds from the Department of Social Services. Child care must be provided by a legal child care provider. Interested students must complete a Child Care Program application and submit a copy of their notification from the Department of Social Services, documenting their application status. Students must also maintain satisfactory academic progress according to Craven Community College.

## Craven Community College Scholarships

The **Craven Community College Foundation** offers a variety of scholarships and financial awards

established for new, returning, and graduating students. Recipients of these scholarships are selected based upon donor criteria, which could include demonstrated financial need, academic achievement, faculty recommendations, and the availability of scholarship funds. All scholarship forms are available in early January from the college website. Applicants are encouraged to [apply for scholarships online](#). Students need to file only one application for a given category of scholarships (one application will submit the student's name for consideration for many of the scholarships). There are many opportunities to get assistance with paying for college. Please review the College's website for more information.

Craven's General Scholarship applications should be completed by May 30, 2025 for the next academic year. Contact the Financial Aid Office for additional information and requirements at [scholarships@cravencc.edu](mailto:scholarships@cravencc.edu).

## Military Benefits

### Active Duty

Military Tuition Assistance Program (TA) – Each branch of the Armed Services offers a TA program for their members who pursue voluntary, off-duty education programs. TA is open to officers, warrant officers, and enlisted active-duty service members. National Guard and Reserve members may be eligible for TA as well. Contact your Military Installation Education Office to get started.

MyCAA - The My Career Advancement Account Scholarship (MyCAA) is a workforce development program that provides eligible military spouses with up to \$4,000 in financial assistance for licenses, certifications, or associate degrees to pursue an occupation or career field. [Create a My Career Advancement Account through Military OneSource to get started.](#)

Students may contact our Cherry Point or Havelock offices at 252-444-6000 or 252-444-2120, or visit Craven CC's website for more information regarding active-duty military benefits.

All Active-Duty Service members /dependents using benefits are eligible for Priority Registration.

### Veterans Benefits

Eligible veterans and their dependents, including dependents of disabled or deceased veterans, are invited to take advantage of the College's educational offerings. The College cooperates with the Department of Veterans Affairs (DVA) and the North Carolina State Approving Agency (SAA) in assisting eligible veterans and their dependents with their VA education benefits.

# Tuition, Financial Aid, Scholarships, and Military Benefits

The Coordinator of Veterans Affairs and the School Certifying Officials (SCOs) will assist veterans and their dependents through the process of acquiring benefits.

Students may contact our School Certifying Officials at [VA@cravencc.edu](mailto:VA@cravencc.edu) and 252-638-7231 or visit the College's Office of Veterans Affairs for more information.

**Regulations contained in the Craven CC Catalog and Student Handbook apply to ALL students. The following are additional for students receiving VA Educational Benefits:**

1. Under the laws and/or regulations governing institutions approved for training of eligible veterans/dependents, certain documents must be on file with the College before certification of enrollment for educational purposes may be completed. These items are:
  - a. Application for admission
  - b. High school transcript or its equivalent (GED), if applicable
  - c. Official transcripts from ALL colleges previously attended  
If the eligible veteran/dependent has received VA educational benefits for previous training, a VA form requesting a Change of Program or Place of Training must be completed.
  - d. Certificates or documentation of additional training and/or education
  - e. Certificate of Eligibility (COE)  
DVA interprets "certificate of eligibility" to be any documentation provided by VA that serves as verification of an individual's eligibility to benefits.
  - f. Request for Certification  
Eligible veterans/dependents must submit an electronic Request for Certification to the College's Office of Veterans Affairs for each semester they wish to receive benefits.
2. All Veterans/dependents using VA Educational benefits are eligible for Priority Registration.
3. The DVA must be notified of any change of address of the veteran/dependent.
4. The DVA will NOT pay for the following enrollment situations at Craven Community College
  - a. Programs/Courses not approved by the DVA
  - b. Students admitted under special status (unless it is a "visiting student" with an official letter from their primary institution outlining how the courses will transfer back into their program of study)
  - c. Auditing
  - d. No credit
  - e. Credit by exam
  - f. Courses not required in Program of Study
  - g. Repeating a course previously passed

- h. Out-of-state tuition rate
- i. E-book fees
- j. Developmental classes that are hybrid or online  
**Students will be required to pay any tuition, fees, and/or supplies not covered by VA educational benefits, Financial Aid, scholarships, grants, and/or other Third Parties.**

5. Eligible veterans/dependents receive pay according to credit hours for all programs.

Student Type	Credit Hours	Contact Hours
Full time	12+	22+
¾ time	9-11	16-21
½ time	6-8	11-15

**Hour requirements may change during the semester due to the accelerated rate. Check with a School Certifying Official.**

Course loads below half time receive only the amount of tuition and fees.

6. Eligible veterans/dependents must be cautious when withdrawing from a course(s). Courses dropped after the start of the semester can result in a reduction of monthly benefits and can be retroactive to the beginning of the term. This applies particularly when a non-punitive grade is given by the instructor and no mitigating circumstances were reported to a School Certifying Official (SCO). Students will be responsible for overpayments of monthly housing allowance/book stipend.
7. Termination of VA Educational Benefits  
Students who fail to maintain satisfactory academic standing for three consecutive academic terms will not be certified for additional VA educational benefits, and will owe any VA Educational Benefits received on the third consecutive academic term that good academic standing was not met.  
Students who become ineligible for VA educational benefits because of unsatisfactory academic requirements will remain ineligible until the minimum requirements are met.
8. Veterans/dependents using VA Educational Benefits will not be penalized or prohibited from attending or participating in courses while awaiting VA payment to the school (for up to 90 days)
9. Craven CC complies with all requirements of Title 38 United States Code Section 3679(e) regarding the distribution of all Department of Veterans Affairs' (VA) benefits. Craven CC will permit any covered individual to attend or participate in the course of education even if the VA has not yet paid tuition and fees. Craven CC will not impose

# Tuition, Financial Aid, Scholarships, and Military Benefits

any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement funding from VA under Chapter 31 or 33. To qualify, individuals may be required to submit the Certificate of Eligibility (COE) by the first day of classes and provide additional information necessary to the proper certification of enrollment.

[\*Title 38 US Code 3679 subsection \(e\)\*](#)

Please note, Craven Community College may also require additional payment for the amount that is the difference between the amount of the student's financial obligation, and the amount of the VA educational benefit disbursement.

## Standards of Progress and Approved Programs

Craven CC record keeping procedures of progress records of eligible Veterans/dependents comply with DVA federal regulations outlined by in 38 CFR 21.

[38 CFR 21 - Veteran Readiness and Employment & Education](#)

[38 CFR 21.4253 - Accredited courses. \(govregs.com\)](#)  
[eCFR: 38 CFR 21.4254 - Nonaccredited courses](#)

For a list of DVA approved programs for this academic year, please see the Web Enabled Approval Management System (WEAMS) link below:

[WEAMS Institution Search](#)

## Veteran Readiness and Employment (VR&E)

If you have a service-connected disability that limits your ability to work or prevents you from working,

Veteran Readiness and Employment (formerly called Vocational Rehabilitation and Employment) can help. This program – also known as Chapter 31 or VR&E – helps you explore employment options and address training needs. In some cases, your family members may also qualify for certain benefits.

For more information on VR&E, you may [visit the U.S. Department of Veterans Affairs website](#) for more information or contact VR&E directly by calling 1-800-827-1000.

The mailing address for Veteran Readiness and Employment is:  
Winston-Salem Regional Office  
251 N. Main St.  
Winston-Salem, NC 27155

## North Carolina Division of Vocational Rehabilitation Services

Any physically handicapped student may be eligible for assistance through the Federal Vocational Rehabilitation program. In order to qualify, a student must have a mental or physical disability which is a handicap to employment. There must also be a reasonable expectation that as a result of vocational rehabilitation services, the person can become gainfully employed. Each rehabilitation program is designed individually with the student.

The amount of the award is based on need and the type of program in which the student is enrolled. It generally pays for tuition, fees, some books and supplies and in some cases, for supportive services such as transportation and interpreter services.

To apply, the student must contact the Vocational Rehabilitation office nearest the student's home, or contact the North Carolina Division of Vocational Rehabilitation Services, 2801 Mail Service Center, Raleigh, NC 27699-2801 or call (919)-855-3500, (919) 324-1500 (Videophone), or (919) 855-3579 (TTY).

# Advising and Registration

## Advising Services

Academic advising services at the New Bern and Havelock campuses provide an environment that promotes student development and success by:

- encouraging the development of academic, career, and personal goals;
- educating students on the College's academic requirements, policies, and procedures; and
- promoting student involvement in curricular and co-curricular engagement at the College.

The advising process is a collaborative process between professional advisors, faculty advisors, and students designed to give students clarity on their academic direction and educational goals.

Craven's Advising Community program is a collaborative relationship between students and their advising teams. The intent of this relationship is to guide students through the development of educational goals that align with their personal interests, skills, and abilities and to provide students with layers of comprehensive support. Every new student will be assigned a professional advisor or faculty advisor in a hybrid advising model.

### First-Year Advising Requirement

All degree-seeking first-year students are encouraged to meet with an academic advisor prior to registration for their second and third semesters. Students will be required to see an academic advisor and to develop an academic plan when they enroll in the ACA College Student Success course within their first 12 credit hours. This procedure was instituted to ensure students receive the proper academic advice and take the classes needed for their curriculum and transfer plans. Even after completing their first year, students are encouraged to continue meeting with their academic advisor each semester.

### First-Year Advising Checklist

- Sign-up for a meeting time with your advisor during the advising period prior to the start of registration. Your advisor information can be found in the Self-Service Portal.
- Preview your Program Evaluation in Self-Service Portal.
- Search the course schedule, creating a list of courses with plenty of alternates **before** your meeting. Bring this list to your appointment.
- Be prepared to discuss course options, address academic problems or concerns, make decisions about the upcoming semester, and explore program options.
- Make sure you arrive for your appointment on time.

Discuss with your advisor your goals and plans for the next semester.

### College Student Success Course Requirement (ACA 111 or ACA 122)

All students working towards their diploma or associate degree must enroll in ACA 111 (College Student Success) or ACA 122 (College Transfer Success) within their first 12 credit hours. Students who do not take the appropriate ACA class during their first semester must complete it by the time they have earned/attempted 12 credit hours or met the qualifications for exemption.

Students are required to successfully complete ACA 111 or ACA 122 unless they have:

- Successfully completed a course equivalent to ACA 111 or ACA 122 at another regionally-accredited college or university. Course must be documented on a transcript.
- Previously earned an associate degree or bachelor's degree from an accredited college or university. ACA course credit will automatically be posted on the student's transcript.

NOTE: ACA 122 is required for students who plan to transfer to a four-year institution. Students pursuing an Associate in Arts, Associate in Engineering, Associate in Fine Arts in Visual Arts, Associate in Fine Arts in Music, Associate in Nursing, or Associate in Science degree should take ACA 122, not ACA 111.

Students enrolled in an Associate in Applied Science degree or diploma are required to take either ACA 111 or ACA 122. If a student has earned credit for another ACA course from a previous program, it may be substituted for ACA 111.

## Registration

Students are encouraged to talk with an advisor for assistance in developing their educational plan and scheduling classes. Registration occurs according to the Academic Calendar, typically one month prior to the semester start. The academic year is composed of two semesters—Fall and Spring—each of which consists of 16 instructional weeks. In addition, shorter sessions, including 12-week and 8-week terms are also provided for students. Summer sessions are a minimum of 8 weeks.

Students meeting certain criteria may register online through Self-Service, an online Web-based portal. New students, students with fewer than 12 credits earned, and special students will need the assistance of an advisor to register. Through Self-Service, students may review their scheduling options, develop preliminary

# Advising and Registration

schedules, and register. Registration information includes class beginning and ending dates, meeting days, class times, and course prerequisites and corequisites. The Self-Service Portal allows students to review their Academic Plan/Progress and includes a Program Evaluation tool and links for a student's end-of-semester grades, grade point average, transcript, placement test scores, and current class schedule.

Students are encouraged to register early to have a better selection of course offerings. Students will not be able to register for a class once that class has started.

## Priority Registration for Students

Priority Registration is a process during which students closest to graduation are given the first opportunity to register online for their courses for next semester. Priority registration dates are assigned based on the cumulative number of curriculum credits earned at Craven. See the Academic Calendar for specific dates.

Degree seeking students who are enrolled full-time are encouraged to register early for the next semester to obtain seats in desired courses. At the end of the Priority Registration period, both currently enrolled and new students can register for classes. Registration for classes will continue until the first day of classes.

## Credit Load

Students should enroll in the number of courses that will allow for successful completion. In general, students should plan on spending one hour of study outside the scheduled classroom time for each hour of credit awarded in a course. Semester hour credit is awarded as follows: one semester hour of credit for each hour per week of class lecture, one semester hour of credit for each two or three hours per week of laboratory work depending on the type of laboratory, and one semester hour of credit for each ten hours of cooperative education work experience. See Course Descriptions for particular course credit information.

## Course Overload Petition

Students may register for 19 semester hours of course credit for fall or spring semesters without restriction. With the approval of the professional academic advisor or Faculty Advisor, a student who has earned a cumulative average of 3.0 in all work may enroll in more than 19 hours of course credit.

Students enrolled for summer semester are cautioned that 19 semester hours credit is an exceptionally heavy load. Twelve semester credit hours (or less) is the recommended summer course load.

## Prerequisites

Certain courses require a grade of C in the prerequisite course to maintain course registration. These grade requirements are noted in the prerequisites listed in the course description in the college catalog. Continued registration in these courses depends on completion of the prerequisite with a grade of C. Students receiving a grade of D in certain prerequisite courses will be automatically removed/dropped.

## Corequisites

A corequisite is a course that must be taken at the same time as another course. Course corequisites, if required, are listed under each course in the Course Description section of this catalog.

## Auditing a Course

Students wishing to audit courses must meet prerequisites for the course. Students must register and pay for the course, complete a Permit to Audit form, and submit the form to Student Services. Audit students receive no course credit; however, students auditing classes may participate in class projects, class work, class discussions, and take examinations. In the event of limited classroom space, priority for a classroom seat must go to the student enrolled for credit. A grade of AU does not satisfy a prerequisite for another course.

Senior citizens (age 65 or older) may audit curriculum and continuing education courses tuition-free as space allows. A senior citizen seeking to audit a curriculum or continuing education course shall not displace a paying student enrolling in that same course. Seniors will be responsible for the purchase of course materials (books, supplies) required for the course and/or fees associated with the course. Senior citizens are not eligible to audit cohort-based courses (e.g. health programs, aviation), nor may they audit Adult Enrichment, community service, self-support, or customized training courses.

A change from audit to credit is permitted only during the registration period. Students may change a course from credit to audit through the last day to withdraw (see the Academic Calendar).

Procedures for changing credit to audit during registration period:

1. Complete a [Permit to Audit Courses form found at Student Forms](#).
2. Submit the completed form to Student Services in Barker Hall, 1<sup>st</sup> Floor (Financial Aid may be affected by this change).

# Advising and Registration

**Note: Financial Aid and VA educational benefits are not available for audited courses.**

## Repeating a Course

Students may repeat a course as many times as necessary to receive a passing grade. Students who audit or receive a passing grade may repeat a course twice. Each attempt will be recorded, and all grades will be reflected on the transcript. The highest grade will be used to calculate a cumulative grade point average. No course may be counted more than once toward graduation. Students who receive transfer credit for a course may repeat it twice.

**Students will not receive VA educational benefits for repeating a course which they have already passed or for which they received transfer credit, with the exception of ADN or PN programs. Military students will not receive tuition assistance for courses previously covered by tuition assistance. Financial aid students may repeat a course with a grade of D or higher once for the purpose of receiving a higher grade.**

If a student wishes to retake a previously passed course more than three times for personal benefit or otherwise, the student will not be counted for budget funding.

Students planning to transfer to other colleges or universities should note that these institutions may include all course attempts when calculating their grade point averages for admissions purposes, and may not honor this school's computations.



## Cancellation of Classes

The College reserves the right to cancel any class due to insufficient enrollment, limitation of funds, lack of qualified staff availability, or lack of physical facilities. Students enrolled in cancelled classes will be notified and will have an opportunity to register for available courses. To ensure timely notification, students should

be sure that the College has a current phone number and home address and that they regularly check their student email account.

## Withdrawals

### Student Course Withdrawal

After registration students may withdraw from a course through the last day listed to withdraw on the Academic Calendar. Withdrawal from a course may affect financial aid awards, but does not affect a student's grade point average.

A student should first talk to the instructor and advisor to see if there is any way to remain in the course. If not, the student must (1) complete a Registration Change Form found online at Student Forms, (2) have an advisor sign the form, and (3) submit the form to Student Services.

Students enrolled in Career and College Promise (CCP) programs, including Craven Early College (CEC) and Early College EAST (ECE), are subject to different course self-withdrawal policies than traditional college students. Due to program-specific guidelines and potential impacts on academic progress, students considering withdrawal from a course should consult their high school advisor prior to making any changes to their course load.

### Developmental Corequisite Course Withdrawal Process

A corequisite course is one that must be taken simultaneously with another specific course. Some corequisite courses are considered curriculum courses (numbered > 100) and some are considered developmental courses (numbered < 100). When a curriculum course is paired with a developmental course, the student may withdraw from the curriculum course while remaining enrolled in the developmental course; if the student drops or withdraws from the developmental course, the student must also student must drop or withdraw from the curriculum course. Curriculum courses paired with developmental courses are as follows:

Curriculum Course	Developmental Course
ENG 111	ENG 045
MAT 121	MAT 045
MAT 143	MAT 045
MAT 152	MAT 045
MAT 171	MAT 045

# Advising and Registration

## Instructor/Course Withdrawal

Faculty must withdraw a student from a course for excessive absences by the Last Day to Withdraw from Class or Audit (See Academic Calendar). See the course syllabus for faculty expectations for attendance.

## Official Withdrawal from the College

To withdraw from all of the current semester's courses, a student must complete the College Withdrawal Form located in Student Services or online. The student should discuss withdrawing with an advisor. The student's financial aid and future academic records may be affected by a withdrawal and should be discussed with the Financial Aid office.

## How Withdrawing Affects Financial Aid

Whether you withdraw officially, or unofficially, the college must determine if you earned all federal or state aid received. The law specifies how Craven CC must determine the amount of Title IV program assistance that you earn if you withdraw from school. The Title IV programs that are covered by this law are Federal Pell Grants, Iraq and Afghanistan Service Grants, and Federal Supplemental Educational Opportunity Grants (FSEOGs). Though your aid is posted to your account at the start of each semester, you earn the funds as you complete the semester. If you withdraw during the semester the amount of Title IV program assistance that you have earned up to that point is determined by a specific formula (known as a Return of Title IV). If you received less assistance than the amount that you earned, you may be able to receive those additional funds. If you received more assistance than you earned, the excess funds must be returned by the school and/ or you.

The amount of assistance that you have earned is determined on a pro rata basis. For example, if you completed 30% of your semester, you earn 30% of the assistance you were originally scheduled to receive. Once you have completed more than 60% of the semester, you earn all the assistance that you were scheduled to receive for that semester.

## Withdrawal from the College after Deadline

Contact the Registrar to withdraw from classes after the Last Day to Withdraw from Class or Audit (see Academic Calendar). Students who withdraw after this date for extenuating circumstances will be withdrawn from all of their current semester classes.

## Applying for Graduation

### Graduation Requirements

Students must satisfy all [program and academic requirements](#) to graduate.

## Graduation Application

It is the student's responsibility to meet with an advisor to discuss the application for graduation, as this form must be completed by the student's academic or professional advisor. Completed forms should be submitted to the Student Accounts Office, which will forward the application to the Registrar's Office. The graduation fee is paid to the Student Accounts Office and is non-refundable (see [fee chart](#) for fees related to the graduation application).

- Students may graduate at the end of the term in which they complete all degree requirements.
- If an applicant does not meet graduation requirements in the anticipated semester, their application will remain on file, and the fee will be applied to the following semester. Spring applications will remain on file through the subsequent fall semester.
- The Registrar's Office will confer any earned credentials once program requirements are verified at the end of the graduating term.
- Students must remain continuously enrolled each semester, except for the summer term, to graduate under the catalog in effect when they first enrolled.
- Diplomas are mailed to students six to eight weeks after the end of the graduation term. Students who complete a graduation application are eligible to participate in the annual commencement ceremony.

## Commencement Participation Procedure

Craven celebrates graduation with one annual ceremony held at the end of the spring term. To participate in the ceremony, students must complete all coursework and graduation requirements by the summer of the graduation year. A student anticipating summer graduation must be within three (3) courses of completing the graduation requirements in the summer term to be eligible to participate.

Students who have completed a graduation application for the current academic year (Fall through Summer) will receive information and an invitation to the ceremony following the March application deadline. Students who apply for graduation after the spring

# Advising and Registration

deadline will be invited to the ceremony the following year. More information on commencement can be found [here](#).

## University Connections: College/University Transfer Options

### The University of NC System–The NC Community College System Agreement

Students who complete the Associate in Arts (AA) and Associate in Science (AS) degree programs with each course grade of a C or higher and who are accepted by one of the state universities may enter as a junior. Students transferring prior to the completion of an associate degree may transfer a block of core curriculum courses that UNC institutions will accept as a completion of their lower-division general education requirements. Students transferring to senior institutions, other than those of the University of North Carolina System, should ask for assistance in planning their transfer program.

The Comprehensive Articulation Agreement (CAA) between the University of North Carolina System (UNC-System) and the North Carolina Community College System (NCCCS) guarantees the transfer of courses that make up Associate in Arts (AA) and Associate in Science (AS) programs into bachelor degree programs at UNC-System universities.

Individual courses selected from the AA and AS offerings are evaluated by senior institutions on a course-by-course basis. Students wishing to transfer individual courses (not the Universal General Education Transfer Core or the completed degree) are advised to work closely with an academic advisor to select the courses that best suit their educational needs.

The Universal General Education Transfer Core of the AA and the AS degrees (31-34 semester hours) transfers to meet the general education core of the bachelor's degree, provided a "C" or higher is earned in all transferred classes.

The Associate in Arts or the Associate in Science degree transferred under the CAA guarantees junior status. Requirements for some major programs at the senior institution may require additional pre-specialty courses beyond the general education core. Students will still be required to meet the foreign language and/or health and physical education requirements of the receiving college/university.

The Comprehensive Articulation Agreement (CAA) does NOT guarantee acceptance into any specific

college or university. However, completion of the Associate in Arts or the Associate in Science degree under the terms of the CAA does qualify students for admission to a UNC-System school under the Transfer Assured Admissions Policy.

Complete details of the CAA are found at the [University of NC System websites](#).

The Uniform Articulation Agreement between The University of North Carolina Registered Nurse to Bachelor of Science in Nursing (RN to BSN) Programs and the NC Community College System Associate Degree Nursing Programs promotes a more seamless, concise pathway for students moving from community colleges to public universities. This approval includes a Five Block Degree Plan with Transfer Course List.

### Transfer of Community College Coursework to N.C. Private Colleges

In addition to the 16 UNC-System universities that are part of the Comprehensive Articulation Agreement (CAA), 30 private NC colleges have created their own Independent Comprehensive Articulation Agreement (ICAA) with the NCCCS. The Admissions Office at the following institutions may be contacted for more information:

Barton	Meredith
Belmont-Abbey	Methodist
Bennett	Montreat
Brevard	Mount Olive
Campbell	NC Wesleyan
Catawba	Pfeiffer
Chowan	Queens
Gardner-Webb	St. Andrews
Greensboro	St. Augustine
Guilford	Salem
High Point	Shaw
J.C. Smith	Lenoir-Ryhne
Lees-McRae	Warren Wilson
Livingston	William Peace
Mars Hill	Wingate

Additionally, the college enters into a variety of bilateral agreements with public and private institutions across the country.

### East Carolina University Partnership Teach at Craven Community College

Craven's New Bern Campus is the headquarters for Partnership Teach, which serves residents in Craven, Pamlico, Jones, Lenoir, Carteret, and Onslow counties.

# Advising and Registration

Through the ECU Partnership Teach Program, students are able to complete their first two years of general education coursework at Craven Community College and then complete the remainder of their teaching degree at ECU. Degrees offered include:

- BS in Elementary Education
- BS in Special Education
- BS in Middle Grades Education

Each program is offered entirely online, and field placements are made within the local area.

Although students will continue to work with their Craven CC advisors until completion of their transfer degrees, students may contact the Partnership Teach Coastal Consortium Coordinator for additional information: 252-638-6492, Business Information Technology Building, Suite 116 (New Bern Campus).

## Seamless Transfer and Military Outreach

Students who complete their associate degree with Craven Community College may complete bachelor's degrees in the following program areas at East Carolina University (ECU):

- Birth-Kindergarten Education – AAS to BSBK
- Business – AA to BSBA (entirely online)
- Business Education – AAS to BSBE (entirely online)
- Communication – AA to BS (entirely online)
- Industrial Technology/Industrial Distribution and Logistics – AAS (variety of options) to BS
- Industrial Technology/Industrial Supervision– AAS (variety of options) to BS
- Industrial Technology/Information and Computer Technology – AAS (variety of options) to BS
- Industrial Technology/Manufacturing Systems – AAS (variety of options) to BS
- Information Technologies – AAS to BSBE (entirely online)
- Management
- Management and Information Systems
- Marketing, Operations, and Supply Chain Management
- Registered Nurse/Bachelor of Science in Nursing – ADN to RN/BSN

Although students will continue to work with their Craven CC advisors until completion of their transfer degree, they may contact the ECU Associate Director for Military Outreach for more information: 252-444-6003/800-398-9275 [The ECU Military Outreach Office, IAT Building, Suite 114 (Havelock Campus)].

## North Carolina State University The NCSU College of Engineering at Craven Community College

In addition to the courses provided in the Comprehensive Articulation Agreement (CAA), Craven CC students can earn a bachelor's degree from the NC State College of Engineering without leaving home. After completing their general education, math, and science courses at Craven Community College, students are able to "transfer" to NCSU through innovative techniques including high-definition interactive video technology, "live" engineering courses on the Craven CC campus, and by utilizing pre-recorded lectures from NCSU professors. Hands-on laboratory experiences are provided on the Havelock campus using state-of-the-art equipment.

Craven's Havelock campus is the home of NC State's Mechanical Engineering System BSE program. In the BSE program, students can earn a Bachelor of Science in Engineering (BSE) with a concentration in Mechanical Engineering Systems without ever leaving Craven CC.

BSE students take general education, math, and science courses from Craven Community College and engineering courses from NC State. For the engineering courses, students use high-definition interactive video at the Havelock campus to participate in courses taught at the Raleigh campus. In addition, students participate in live courses taught by NC State personnel in Havelock and utilize pre-recorded lectures from NC State professors. Hands-on laboratory experiences are provided in Havelock using state-of-the-art equipment. All BSE courses are sequenced to accommodate the full-time or part-time student attending day or evening classes.

## NCSU College of Engineering Transfer

Students seeking other engineering concentrations can complete a 2+2 program and transfer to NCSU to obtain their Baccalaureate degree.

Although Craven CC engineering students will continue to work with their Craven CC advisors until completion of their transfer degree, they may contact the NCSU Engineering Program Coordinator for more information: 252-444-3357 or wbfornne@ncsu.edu [The NC State College of Engineering office, Rooms 107 & 108 STEM Center (Havelock Campus)].

## Other Engineering Transfer Programs in North Carolina

The 2+2 Engineering Program also provides students with an opportunity to begin at Craven Community College and then transfer to other engineering schools in North Carolina, including UNC-Charlotte, N.C. A&T, or

# Advising and Registration

ECU. Students can finish their degree in 2-3 years (pending admission by their respective university's College of Engineering).

## **Southern Illinois University, Carbondale**

Craven Community College students can earn a Bachelor of Science Degree in Aviation Management at Southern Illinois University (SIU). Craven CC and SIU have an articulation/partnership agreement. After obtaining their Aviation Systems Technology Degree at Craven CC, students are able to transfer to SIU under the Capstone program for their general education (core curriculum) and their A&P license requirements. Only 48 semester hours of major courses at SIU are required. SIU major courses are offered in an accelerated weekend format. Students may contact the [Cherry Point SIU](#) office at 252-447-1688 for more information.

## **North Carolina Wesleyan University**

Craven Community College and North Carolina Wesleyan University have partnered to offer the following baccalaureate degrees to AA, AS, and AAS graduates:

- Accounting
- Business Administration
- Computer Information Systems
- Criminal Justice
- Marketing
- Organizational Administration
- Political Science
- Psychology

Classes will be offered seated, hybrid, and online at both the New Bern and Havelock locations.

Although students will continue to work with their Craven CC advisors until completion of their associate degrees, students may contact the North Carolina Wesleyan University Coordinator for additional information: Business Information Technology Building, Suite 116 (New Bern Campus).

## **The University of Mount Olive**

In addition to transfer options for AS and AA degrees, students who have completed the Associate in Applied

Science degree (AAS), may transfer up to 64 semester hours toward the Bachelor of Applied Science degree (BAS). Technical program credits earned by students wishing to complete the BA/BS degree will be evaluated on an individual basis. Non-traditional sources of credit are also available and include Credit Through Testing (AP Exams, CLEP Exams, etc.), and Military Training Credit.

## **C-STEP: The Carolina Student Transfer Excellence Program**

The Carolina Student Transfer Excellence Program (C-STEP) is a partnership between Craven Community College and the University of North Carolina at Chapel Hill, made possible by a grant from the Jack Kent Cooke Foundation. The goal of C-STEP is to identify high-achieving, low-to moderate-income high school and college students who would not otherwise attend a selective college or university; to enroll these students in the Associate in Arts/Science program at one of the partnering community colleges; to mentor these students through successful completion of an Associate degree (AA/AS); to transfer these students, as juniors, to UNC-Chapel Hill; and to support their successful completion of a baccalaureate degree. Entry into the program is competitive and is based on both demonstrated financial need and academic excellence. Questions concerning C-STEP should be addressed to the Liberal Arts/University Transfer Office in the BIT building, room 102, 252-638-0141.

## **Other College University Connections**

In addition to the courses provided in the Comprehensive Articulation Agreement (CAA), transfer opportunities are continuously being developed with other NC Community College System (NCCCS) Programs and baccalaureate/ university programs across the state and throughout the country, with a variety of options provided at the New Bern, Cherry Point, and Havelock campuses. For up-to-date information about new and developing articulation agreements, students may contact their advisors, the Student Services Division 252-638-7430, the Cherry Point Branch Office 252-444-6000, and the Havelock Campus 252-444-6005 as well as access the [Craven CC website](#).

# Academic Support Services

## Academic Support Center

The Academic Support Center (ASC) provides academic assistance to Craven CC curriculum students enrolled in courses at all levels. Our mission is to help students reach their academic, personal, social, and economic potential by supporting their intellectual growth, directing and connecting them to resources, and motivating them to become lifelong learners.

An Academic Support Center is located on both campuses. The New Bern ASC is in Ward Hall, Room 100. The Havelock ASC is in the Redd Classroom Building, Room 131. Both centers offer one-on-one tutoring sessions, group tutoring sessions, and virtual tutoring appointments for many subjects. Additionally, organization, time management, test preparation, and study skills are offered to students, along with study groups, workshops, writing and research assistance, placement test preparation, technology support and access to computers and printing, and professional communication and academic resourcefulness (emailing instructors, contacting advisor, etc.).

All ASC tutoring sessions are free and can be booked by appointment and on a walk-in basis. Please note that walk-ins are subject to tutor availability. Tutoring is available face-to-face on the New Bern and Havelock Campus, and online with a campus tutor. Students may choose to tutor through either the Havelock or New Bern ASC, regardless of which campus their seated courses may be on. Students can schedule tutoring by calling, walking-in, or logging into TracCloud via Microsoft 365 apps. Students can find instructions for scheduling an appointment through TracCloud by visiting the Meet with a Tutor link at the top of the page on Panther Portal. If a campus tutor is not readily available for a course, students have access to Tutor.com – a 24/7 online tutoring platform accessible through single sign-on via Microsoft 365. Tutor.com offers a wide array of subject areas and even assists with writing and skill development.

Additionally, Academic Success Coaches are readily available to provide holistic support to students inside or outside the classroom that focuses on their mental, physical, and social well-being. The Success Coach Team can also support students with developing healthy skills and habits that contribute to success in college.

For more information, students will need to contact the ASC Office. Students are strongly encouraged to take advantage of the free resources available to assist in their learning.

**ASC - New Bern Campus:** 252-638-7274

**ASC - Havelock Campus:** 252-444-0707

[Visit the ASC page on the Craven CC website.](#)

### Academic Support Center Hours (New Bern & Havelock)

#### *Fall and Spring*

Monday-Thursday 8:00 a.m.-5:30 p.m.  
Friday 8:00 a.m.-12:00 p.m.

#### *Summer*

Monday-Thursday 7:30 a.m.-5:30 p.m.  
Friday Closed

## Student Help Desk

The Student Help Desk is available in the Academic Support Center on the New Bern campus located in Ward Hall, Room 100. Student Help Desk Technicians are available to assist students with basic computer and technical needs and are committed to providing detailed resolutions and general information to assist with common problems. The Student Help Desk is the student resource for resetting passwords to email, Moodle, and other college systems. Technicians are available in the Academic Support Center during normal college operating hours and provide online assistance Saturday-Thursday from 6:00 pm to 9:00 pm. Students can contact the Help Desk by dialing 252-638-7212 or by submitting a [helpdesk ticket](#) after hours to help.cravencc.edu.

[Visit Student Help Desk Portal on the Craven CC Website](#)

## Disability Services

The College is committed to working with students with different learning preferences and those with documented disabilities.

If a student believes that disability-related issues have affected or may affect academic progress, he/she may voluntarily supply documentation that reflects the current condition of the disability and its specific impact on educational experiences to the ADA Coordinator. If the student supplies such documentation, the College will keep it confidential and use it only as part of efforts to increase access by individuals with disabilities in accordance with ADA mandates. If a student chooses **not** to supply this information, he/she will **not** be eligible for accommodations.

Students must complete the Student Request for Accommodations Form and submit the required documentation to the Office of Disability Services located in Ward Hall, Room 108 to begin the ADA Accommodation Award process. Because every individual service, program, and activity is different, accommodation decisions are made on a case-by-case

# Academic Support Services

basis. It is the College's policy to afford disabled persons every reasonable opportunity to receive the benefits and services provided by the College and to succeed. The College strives to keep the lines of communication open between students with disabilities who require reasonable accommodation and those instructors and other College personnel who are responsible for the services, programs, and activities. Students must request their accommodations each semester by phone, email, or by selecting semester request through the Accommodate system.

[Electronic Student Request for Disability Accommodations](#)

[PDF Student Request for Accommodations Under the American with Disabilities Act](#)

## Library

Craven Community College's library, Godwin Memorial Library, is located on the New Bern campus and offers resources to meet the academic and instructional needs of Craven CC students, faculty, and staff. The library's mission is to meet the informational and curricular needs of patrons in support of academic excellence and lifelong learning.

Services for students include access to electronic databases, instructional and research support, private and group study rooms, printing services, and virtual reality. In addition to physical and digital collections (audio and E-books), students can also access a small collection of course textbooks that can be used in the library. Additional resources and current operating hours are available online through [Craven CC's library website](#).

Any resident of Craven County who is over the age of 18 may apply for a library card to borrow items. A valid NC driver's license is required.

In addition to Godwin Memorial Library, the College partners with the Havelock Public Library, located on the Havelock campus, to ensure students on both campuses have access to library resources.



## Testing Center

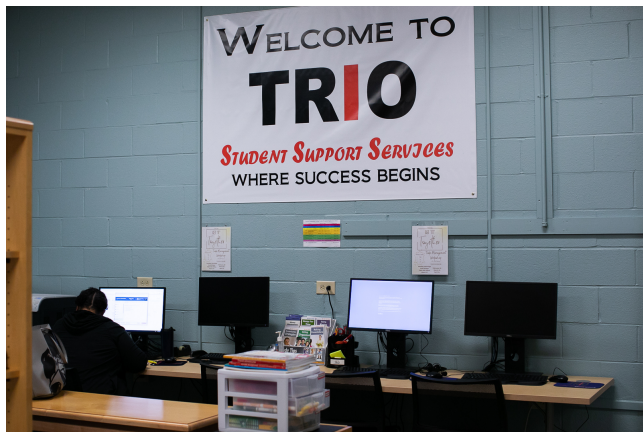
Craven Community College maintains Testing Centers on the New Bern, Havelock, and Cherry Point campuses. Each office administers a variety of tests for students and community members. Make up exams, testing accommodations, and a large variety of official certification tests are available. The New Bern Testing Center is located on the second floor of Barker Hall. The Havelock Testing Center can be found in the Redd Building, room 131. The MCAS Cherry Point Testing center is in the Jerry Marvel Training and Education Building on base. The Cherry Point Testing Center offers testing services to military personnel, family members, students, and civilians associated with the base. Each Testing Center maintains a variety of operational hours.

<b>New Bern Testing Center Hours</b>	
<i>Fall and Spring</i>	
Monday-Thursday	8:00 a.m. to 5:00 p.m.
Friday	8:00 a.m. to 12:00 p.m.
<i>Summer</i>	
Monday-Thursday	7:00 a.m. to 5:00 p.m.
Friday	Closed
<b>Havelock Testing Center Hours</b>	
<i>Fall and Spring</i>	
Monday-Thursday	8:00 a.m. to 5:00 p.m. (by appointment)
Friday	8:00 a.m. to 12:00 p.m. (by appointment)
<i>Summer</i>	
Monday-Thursday	8:00 a.m. to 5:30 p.m. (by appointment)
Friday & Saturday	Closed
<b>MCAS Cherry Point Testing Center</b>	
Thursday	8:00 a.m. to 12:00 p.m. and 1:00 p.m. to 5:00 p.m.

# Academic Support Services

(by appointment)

## TRIO Student Support Services



The TRIO Student Support Services program is dedicated to empowering and guiding students from disadvantaged backgrounds in their pursuit of a college degree. Our program promotes academic excellence, integrity, and student success, emphasizing individual responsibility through leadership and service to enhance retention and graduation rates. Our mission centers around fostering a supportive environment and offering a wide range of services to aid our students in their academic journey. These services include:

- holistic advising
- academic guidance
- financial literacy education
- career exploration
- transfer support
- college success workshops

- personal and professional development workshops
- college campus tours
- assistance with the transferring process to a four-year university

### Eligibility

To be eligible for the program, students must meet one of three criteria:

- 1) being income eligible
- 2) a first-generation college student (meaning their parents did not earn a four-year degree)
- 3) having a disability

TRIO Student Support Services is federally funded by the Department of Education. Once accepted into the program, students can participate in all TRIO events and programs free of charge.

### Application Process

To apply for TRIO, please fill out the application form - <https://botform.compansol.com/201675242845053>

Upon submission, a member of our TRIO team will reach out to schedule an initial meeting.

Student Support Services is located on the New Bern Campus in Ward Hall, Room 117. For additional information, contact 252-638-1236.

### Office Hours (New Bern)

#### Fall and Spring

Monday-Thursday	8:00 a.m.- 6:00 p.m.
Friday	8:00 a.m.-12:00 p.m.

#### Summer

Monday-Thursday	8:00 a.m.- 6:00 p.m.
Friday	Closed

## Campus Life

While academics are of primary importance at the College, learning and development outside the classroom are also critical. For that reason, participation in student organizations is encouraged. Students wishing to join a club should contact the faculty advisor for that club. Names of club advisors can be obtained in Student Services or from Panther Portal. All student organizations must be approved by the Associate Dean for Student Services and the Campus Life Coordinator. Each organization must meet and adhere to the criteria and procedures established by the administration and SGA. The following are active clubs:

**3CGC-** The purpose of the 3CGC club is to bring the student body together to enhance musical skills while unifying voices and cultures to spread the good news through gospel music.

**Automotive Technology Club** – The purposes of the Automotive Technology Club are: (1) to promote professional competency among students who are training to be automotive technicians; (2) to research, coordinate, and provide opportunities for educational field trips to observe and learn about various aspects of the automotive industry; (3) to host guest speakers/ instructors from the automotive industry in order to become informed about current trends and new products; and (4) to assist club members in finding industry-related jobs within the local area.

**Craven Fitness** – The purposes of the Craven Fitness Club are to establish a support system, forge friendships, and provide opportunities to network, build lifelong transferable skills related to a person's overall health, increase knowledge and interest in health, fitness nutrition and mental health, and provide a place for students to meet and interact with a diverse population of people.

**Craven CC Hurst Student Ambassadors** -The Student Ambassadors are selected to represent the college at various community and student events. Students selected for the scholarship program must have a minimum GPA of 3.5 to be eligible to apply, have recommendations from the faculty and staff, and be enrolled in at least 6 credit hours.

**Cybersecurity and IT Club**- The purpose of the Cybersecurity and IT Club is to: 1) network with other students and local professionals; 2) learn more about cybersecurity and information technology; and 3) raise funds to aid students in attending technology conferences.

**Early Childhood Educators Club** – The purposes of the Early Childhood Educators Club are to support students

in reaching their higher learning goals, offer student leadership opportunities, provide networking opportunities with other early childhood educators, coordinate volunteer opportunities at the college and community at large, be an advocate for the field of Early Childhood Education, and inspire the next generation of teachers.

**ENCORE!** - ENCORE! is Craven Community College's singing ambassadors group that performs at the college and throughout the community.

**Global Club** - The students of the Global Club at Craven Community College will celebrate diversity and cultures both at home and abroad. The purposes of this club are: (1) to share information about cultures; (2) to promote open-mindedness and diversity; (3) to create a more inclusive environment for all students at our institution; and (4) to provide fundraising opportunities for students who wish to participate in a Craven CC Study Abroad Trip in order to further their global understanding across international borders.

**H.I.T. Club** - The purposes of the Health Information Technology (H.I.T.) Club are (1) to provide the opportunity for leadership training in service; (2) to promote good fellowship and high scholarship; (3) to practice the application of the highest social, business, and professional standards; (4) to provide a platform enabling student participation in local and state association meetings; and (5) to provide networking opportunities with fellow students, faculty, staff, and community businesses.

**Manifest Club** – Manifest club promotes academic success and holistic development in minority males at Craven Community College through providing opportunities for fellowship, campus and community networking, and enrichment experiences.

**Manufacturing Club** – The purposes of the Manufacturing Club are to promote professional competency, provide an opportunity for the club members to serve together productively, and to promote better understanding and cooperation among members of the faculty and students.

**National Society of Leadership and Success** – NSLS provides a life-changing leadership program that helps students achieve personal growth, career success, and empowers them to have a positive impact in their communities.

**Panthers Baseball Club** – The Panthers Baseball Club is the official baseball athletic team/club of Craven Community College. All players must be full-time students and meet the eligibility of the National Club Baseball Association (NCBA), which is the governing

# Student Services

association in which the club plays. Any eligible student is encouraged to try out for the team at the beginning of each semester.

**Physical Therapist Assistant Club** - The purposes of the Physical Therapist Assistant Club are (1) to encourage and promote awareness in the field of Physical Therapy within the college and the community; and (2) to assist the club members in continuing professional growth.

**Phi Theta Kappa** - Phi Theta Kappa (PTK) is recognized as the official honor society for community colleges by the American Association of Community Colleges. Eligible students must achieve a minimum GPA of 3.5 and have 12 hours of college credit that can be used towards an associate degree. PTK exists to encourage and support the complementary ideas of scholarship and leadership. Through charitable projects and student activities, PTK allows members to cultivate a positive image for Craven Community College within their own community.

**Pride Club** - The purposes of Pride Club are to (1) facilitate educational dialogue between peers; (2) engage in campus and community public service; (3) create a space for LGBTQIA+ and allies to discuss and connect with others; and (4) help create solidarity between fellow Panthers to help improve quality of life for all.

**SkillsUSA Organization** - The purposes of the SkillsUSA Organization are: (1) to assist vocational trade, industrial, technical, and health occupational students in their academic growth and development; (2) to unite students in a common bond without regard to race, sex, religion, creed, or national origin; (3) to develop local SkillsUSA members with leadership abilities through participation in educational, vocational, civic, recreation, and social activities; (4) to foster a deep respect for the dignity of work; (5) to assist students in establishing realistic vocational goals; (6) to promote high standards in all phases of occupational endeavor including trade ethics, workmanship, scholarship, and safety; (7) to plan, organize, and carry out projects through the use of the democratic process; and (8) to foster a wholesome understanding of the functions of labor and management organizations.

**Student Government Association (SGA)** – The SGA acts as a representative of Craven CC and the N4CSGA, upholds a philosophy of teaching and learning through campus activities, develops continued connections amongst the clubs and organizations of Craven CC, and is an active, responsive resource for the student body. The SGA has scholarship opportunities for Executive Board members.

**Student Nursing Association** - The purposes of the Student Nursing Association shall be the

encouragement of scholarship, the development of leadership, the promotion of service, and the cultivation of fellowship among members. Any student enrolled in the Nursing Program may be a member of the club.

**Student Veterans of America (SVA)** – Student Veterans of America elevates the academic, professional, and personal development of veterans in higher education through chapter programs and services, outcomes and impacts research, and advocacy at every level. With a mission focused on empowering student veterans, SVA is committed to providing an educational experience that goes beyond the classroom.

**Ignite Leadership Club** - The purpose of Ignite Leadership Club is to encourage self- development, commitment to academics, and dedication to community involvement while providing opportunities for students to gain leadership and management experience.

## First-Year Experience

The college is committed to making sure that each student succeeds and wants their college experience to be rewarding. First-year students are encouraged to take advantage of the wonderful resources that Craven CC provides to ensure they are successful as college students. The First-Year Experience offers:

- New Student Orientation Sessions (on campus and online.)
- ACA College Student Success Courses (ACA 111 and ACA 122)
- Peer mentors in ACA classes and the advising center
- First-Year Advising
- Student Success Workshops
- First-Year Events to promote student engagement

## Philosophy of the First Year

Craven Community College believes the first-year experience is critical to the academic success and personal growth of our students as it is the foundation upon which future educational endeavors are built. Craven is committed to creating a comprehensive first-year experience program that integrates students into the college community as engaged learners and participants in campus life and facilitates their transition to college.

To reach this goal, we are committed to creating:

- A welcoming environment both in and outside of the classroom that is sensitive to individual needs, backgrounds, and experiences of all first-year students.

# Student Services

- Connections across campus and points of contact for students with faculty, staff, and experienced students.
- A vibrant student-learning community that challenges and inspires students to actively engage in learning, achieve their maximum potential, and become independent, life-long learners.

The college recognizes this commitment obligates all members of the Craven community to cooperatively and intentionally structure their programs, activities, and services to promote first-year success.



## Fitness Center

A Fitness Center for students and staff is located in Ward Hall on the New Bern Campus. For-credit wellness and activity classes are offered in the Fitness Center along with “open lab” hours designated throughout the week. Free weights and various exercise equipment are available for use.

## Food Service

Food service is available in Ward Hall on the New Bern campus through Craven Coffee House and Cafe.

Vending machines are located across both the New Bern and Havelock campuses. Coffee, soda, and snacks can be purchased in the bookstore.

## Bookstore

Follett Higher Education Group operates a bookstore at the New Bern campus, where students may purchase textbooks, supplies, and other items. The Havelock campus students can purchase textbooks, supplies, and other items online or by visiting the New Bern campus.

The cost of textbooks and other materials varies. Students may return books for a refund within seven business days of class with their receipt. Books purchased after the first day of class, and if they are still wrapped in their original plastic wrap, may be returned within two business days from the date of the receipt. An appropriate register receipt must accompany all books returned to the bookstore. Unbound books or kits cannot be returned to the bookstore. Damaged books will not be accepted for return. Books that are used may be sold back to the bookstore, however the price will not be what the student paid for the book but will be determined by the wholesaler.

When purchasing general merchandise, students have 30 days from the date of purchase to return the item for an exchange or a different product.

Textbooks for some courses are on reserve in the library for limited use.



## Semester System and Credit Hours

Craven Community College operates on the semester system. The Fall and Spring semesters are sixteen (16) weeks in length and the Summer semester is approximately ten (10) weeks in length. The amount of time that a class meets each week is determined by the number of contact hours required for course completion.

Semester hours credit is awarded as follows: one semester credit hour for each sixteen (16) hours of class lecture, one semester credit hour for each thirty-two (32) hours of laboratory work, one semester credit hour for each forty-eight (48) hours of clinical, and one semester credit hour for each one hundred sixty (160) hours of work experience.

## Catalog of Record

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

The Catalog of Record is established for the convenience of the College and to inform a student about the curriculum expectations at the time of a student's enrollment. The Catalog of Record is not a contract between the College and its students. The College can modify or eliminate curriculum programs without regard to any Catalog of Record. Whenever reasonably possible, the College will attempt to provide prior notice to students about curriculum and policy changes, but such changes may be implemented at any time. Whenever a policy or curriculum change adversely affects a student's course of study established under a particular Catalog of Record, the College will attempt to advise the student about their options and course of study consistent with the College's accreditation requirements and policies and North Carolina law and regulation.

## Change of Program

Students seeking a change of program should contact an academic advisor. The change shall be effective at the beginning of the next semester, or later, as specified by the student. A student's grade point average will not be recalculated when a student changes his/her program.

A complete listing of the programs of study for all college transfer degrees, applied degrees, and the general education degree can be found in this catalog.

## Course Substitution

Under extenuating circumstances, a student may request approval of a course substitution to comply with a required course in the relevant program of study. The course used as a substitute must have credit hours that are at least equal to the number of credit hours of the original course. The substitute course must have relevance to the curriculum and should also have relevance to the course for which the substitution is made. A course substitution may be granted upon review and recommendation of the director/department chair to the dean and in consultation with the Chief Academic Officer. Consideration of any substitution involving a required core course as stipulated in the curriculum standard must receive additional approval by the North Carolina Community College System Office staff. The course substitution form must be approved and submitted to the Registrar's Office prior to the student registering for the substituted course. In rare instances, a course substitution may be requested at the time of graduation. In these situations, the course substitutions will be at the discretion of the Chief Academic Officer. The Registrar's office will process the course substitutions at the time of the form submission.

If it becomes necessary to request a course substitution to comply with a prerequisite for a course in the student's program of study, the student should follow the same process used to request a course substitution for a program requirement. The course substituted for the required prerequisite should have equivalent subject content to the required course. Substitutions must be approved before the student registers for the course for which the prerequisite substitution is being requested. Prerequisite substitutions are rare.

## Examination and Transfer Credit

### Credit by Transfer

The college will complete an evaluation of transfer credits that may have been earned from another college or university or through advanced placement or other examinations. Transfer students must complete 25% of their coursework at Craven Community College to be eligible for graduation. Any credit earned with a grade of "C" or higher at an accredited institution will be accepted at Craven Community College, provided it is appropriate to the student's program and a comparable course is offered. The catalog and/or course

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descriptions from other institutions attended may be required for evaluation before credit is granted. Coursework over fifteen years old may not be accepted. Evaluation of such credits will be made on an individual basis.

## Credit for Prior Learning

Students can receive credit for prior learning experiences at Craven Community College as outlined in College Procedure 4.16.1. Students seeking credit for prior learning should make the request through the college's Registrar's Office.

## Course Syllabi

Course syllabi represent the instructor's expectations and the student's obligations for successful completion of a course. It is the student's responsibility to read, understand, and follow a course syllabus. By taking a course, each student is promising to perform according to the requirements in the syllabus. Although a syllabus is not a legal contract, students will be fully accountable for performing according to the instructor's expectations as set forth in the syllabus. A syllabus may be modified at any time by the instructor and it is the student's responsibility to be aware and understand any syllabus changes. Syllabus changes normally will be in writing but instructors may make any change by verbal announcement during class. Instructors may make syllabus changes for the purposes of adapting to circumstances required for a particular course, maximizing educational opportunities, or reflecting changes in College policy or North Carolina law and regulation.



## College Attendance Policy

Craven Community College has adopted a mandatory attendance policy. Faculty must document all attendance prior to the census date (10% point) and for the duration of each course. Attendance must be completed by the date listed on the academic calendar

(just after the 10% date for each term). If students stop attending after the 10% and receive a grade of an "F," the last date of attendance is required. After the census date, instructors will continue to observe the College Attendance Policy. Instructors cannot assign Never Attended (NA) at the end of the semester. The instructor's attendance policy must be stated in the class syllabus. The College attendance policy is as follows:

*"Students are expected to be in class on time and are expected to attend all classes, laboratory periods, and shop sessions. A student WILL be automatically withdrawn from any course when absent more than 20 % of the total class, laboratory, clinical or shop periods. Any three tardy notices in a given class may constitute one class absence. A tardy may also be assessed when a student leaves class early."*

Absences in online/hybrid courses WILL be managed in the following manner:

- Faculty must ensure all online courses require activity each week for the duration of the semester.
- For any week in which a student fails to be active in a course, that week will constitute "one absence."
- As is the case with seated classes, students WILL be automatically withdrawn from any course when absent more than 20% of the total class time. Students who miss more than 20% of the class after the last date to withdraw will receive a failing grade for the class.
- Regardless of whether the course is being delivered in a seated format or online, instructors will provide specific course requirements in their syllabi.
- Missing class for military assignment or for college-related activities will not constitute an absence when the instructor has received prior official notification such as a letter from the commanding officer in military matters or from approved college personnel for college-related activities.
- Missing a maximum of two absences per academic year for religious observances will not constitute an absence when the instructor has received written notification from the student at least fourteen (14) working days prior to the date the student intends to be absent for the religious observance. Students shall be given the opportunity to make up any tests or other work missed due to the excused absence for religious observation. Responsibility for initiating such notifications rests with the student.
- Any student facing a lengthy illness may apply for extended absences through the ADA Coordinator in Academic Support Services. All ADA standards

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must be met for this exception to be granted. Students who cannot adhere to the attendance policy must officially withdraw from class(es) to avoid a possible failing grade(s). (See Withdrawal Procedures.) Refer to the Academic Calendar in Panther Portal or your course handout for the specific withdrawal deadline. For extenuating circumstances, refer to the paragraph "Grade: I" in the Academic Regulations section of the catalog.

- Instructors must issue automatic withdrawals by the official withdrawal date for the term. After this date, students will receive a grade for the courses.

## Academic Dishonesty

Academic dishonesty is regarded by the College as a breach of academic ethics and deserves consequences. Academic dishonesty includes acts such as cheating, plagiarism, knowingly furnishing false information, forgery, alteration, or any use of identification or other projects with an intent to defraud. Acts of Academic Dishonesty will be addressed through the Academic Honesty Procedures.

## Grades

### Grade Descriptions for Developmental Studies Courses

Developmental Studies courses are designated by course numbers below 100 and do not earn quality points or count towards a student's GPA. They are designed to enhance the skill sets of students who do not place into curriculum-level courses.

Letter Grade	Letter Definition	Description
SA (90-100)	Highly Satisfactory	Successful mastery of all course requirements as specified by the instructor with a high quality of performance.
SB (80-89)	Satisfactory	Successful completion of all course requirements as specified by the instructor with a satisfactory quality of performance.
U (Below 80)	Unsatisfactory	Failure to successfully complete all course requirements as specified by the instructor.
P (70-100)	Pass	Successful completion of all course requirements as specified by the instructor with satisfactory quality of performance.
A	Excellent	Successful mastery of all course requirements as specified by the instructor with excellent quality of performance.
B	Above Average	Successful completion of all course requirements as specified by the instructor with high quality of performance.

C	Average	Successful completion of all course requirements as specified by the instructor with an average quality of performance.**
F	Failing	Failure to successfully complete all course requirements as specified by the instructor.

### Grade Descriptions

A 10-point grading system is used to determine letter grades in curriculum-level courses. The letter grades, as described below, correspond to quality points used in calculating grade point averages

Letter Grade	Letter Definition	Description	Quality Points/ GPA
A (90-100)	Excellent	Successful mastery of all course requirements as specified by the instructor with excellent quality of performance.	4
B (80-89)	Above Average	Successful completion of all course requirements as specified by the instructor with high quality of performance.	3
C (70-79)	Average	Successful completion of all course requirements as specified by the instructor with an average quality of performance.**	2
D (60-69)	Below Average	Successful completion of all course requirements as specified by the instructor with a minimal quality of performance.	1
F (59 and below)	Failing	Failure to successfully complete all course requirements as specified by the instructor.	0
I	Incomplete Grade	Temporary grade when extenuating circumstances occur.* <a href="#">Incomplete grades</a> are only eligible if a student has completed 80% of the course work and becomes subjected to some unforeseen event. Final determination and approval for an incomplete will be made by the faculty member and appropriate Learning Center Dean.	0
W	Withdrawal	Official withdrawal from the course without academic penalty.	0
AU	Audit	Audit. Curriculum courses ONLY.	0
AW	Automatic Withdrawal	Instructor withdrawal of the student from course for excessive absences without academic penalty.	0
CE	Credit by Examination	Credit by Examination. Curriculum courses ONLY.	0
FG	Forgiveness Grade	Previous failure to successfully complete all course requirements, but cumulative grade point average recalculated under the College forgiveness policy.	0
NA	Never Attended	Instructor withdrawal from the course without academic penalty.	0
SR	Audit	Senior Audit	0

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*\*It is the student's responsibility to contact the instructor regarding work to be completed for the removal of the "I" grade. A Grade of "I" must be removed during the first eight weeks of the next semester or it automatically becomes an "F." (EXCEPTION: Spring semester incomplete grades must be removed no later than the first eight weeks of the next Fall semester. Associate Degree Nursing, Practical Nursing, Health Information Technology and Medical Assisting students must remove an incomplete grade prior to the beginning of the next semester of study.) This policy may be waived through petition to and approval of the Chief Academic Officer.*

*\*\*For course grade requirements for Nursing, Physical Therapist Assistant, Medical Assisting, and Health Information Technology programs see associated program handbooks.*

## Computation of Grade Point Average (GPA)

To calculate your grade point average (GPA), you must first calculate quality points by multiplying number of credits of a course by the numeric value of the grade earned. For example: An A (4 quality points) in Expository Writing (3 credits) produces 12 quality points ( $4 \times 3 = 12$ ), or a C (2 quality points) in Calculus I (4 credits) produces 8 quality points ( $2 \times 4 = 8$ ).

To determine GPA for a given semester, divide the quality points earned by the number of semester hour credits. The same formula, dividing the total number of quality points by the total number of credits calculated, is used to calculate the cumulative GPA.

The letter for each subject will be converted to a quality point equivalent. The quality points are then multiplied by the semester hours. The total quality points are then divided by the total hours to give the GPA.

### Example:

Class	Grade	Quality Points		Semester Hours Credit		Total Quality Points
ACA 111	A	4	x	1	=	4
CIS 111	B	3	x	2	=	6
PSY 150	D	1	x	3	=	3
WBL 112	C	2	x	2	=	4
HEA 110	C	2	x	3	=	6
Totals	-	-	-	11	-	23

Divide: 23 divided by 11 equals 2.09  
Your grade point average is 2.09

## Grade Reports

Students' grades will be posted after each semester on Self-Service, the College's online portal for student information.

## Change of Grade

Students are responsible for checking the accuracy of their grades with the instructors. Awarding grades to students is the responsibility of the instructor. Once awarded, a grade may be changed only upon written explanation and authorization from the faculty to the Registrar using the Change of Grade Report form. Extraordinary circumstances will be referred to the instructor's supervisor. Students may appeal a disputed grade through the Student Grade Appeals process.

## Grade Appeal

The purpose of the Student Final Grade Appeal Process is to provide a student with a mechanism to appeal a disputed final grade, while respecting the academic authority of the instructor. This process recognizes the following:

- Every student has a right to receive a final grade based upon a fair and unprejudiced evaluation determined by a method that is applied consistently and is neither arbitrary nor capricious; and,
- Instructors have the right to assign a final grade based on any method that is professionally acceptable, submitted in writing to all students, and applied equally.

The following procedure will enable a student to exercise this right:

1. Any appeal of a final grade should be initiated within two weeks of the start of the following term by the student conferring with the instructor to determine that there has been no mistake and to present his or her case.
2. If the case is not resolved by the instructor, the instructor will suggest that the student complete a "Student Grade Appeal" form which should be signed and dated by the instructor and submitted by the student to the department chair/dean who will hear his or her appeal. The submitted "Student Grade Appeal" form should have the course syllabus and any relevant coursework attached. This should be completed within two weeks from the date of the grade appeal meeting with the instructor.
3. If the case cannot be resolved at the department level, the student should submit to the supervising dean a copy of the "Student Grade Appeal" with appropriate signatures and dates and request an appointment. This should be completed within two weeks from the date of the grade appeal meeting with the department chair/program director.
4. If the issue is unresolved, the student may submit within two weeks a copy of the "Student Grade

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Appeal” which includes the dean’s signature to the Chief Academic Officer (CAO). The CAO may, at their discretion, create a committee of three individuals to hear the student’s appeal. The committee should consist of a member of the Student Government Association, a faculty member from the same department as the appealed instructor, if possible (but excluding the department chair and appealed instructor), and a third member of the CAO’s choice.

5. The committee will make a recommendation to the CAO. The CAO will confer with the instructor for final determination. The student should be notified of the decision in writing within two weeks of the request. This decision is final.

Timeliness – Processing at each step cannot exceed two weeks; 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 student may then request higher administrative assistance in obtaining requested relief.

## Academic Recognition

### Dean’s List

To recognize students with outstanding scholastic records, the College publishes a Dean’s List on its website after each semester. To qualify for the Dean’s List, a student must complete a minimum course load of 12 curriculum credit hours and achieve a minimum 3.5 grade point average for the semester, without an incomplete (I) grade.

### Phi Theta Kappa

The purpose of Phi Theta Kappa (PTK), an international honor society of two-year colleges, is to promote scholarship, the development of leadership, and service by cultivating fellowship among qualified students. Students are invited to join the society once they have completed 12 hours of college course credit and earned a 3.5 or higher GPA.

### National Society of Leadership and Success

The National Society of Leadership and Success (NSLS) is the largest leadership honor society in the United States. The mission of NSLS is to help people discover and achieve their goals. It offers life-changing lectures from the nation’s leading presenters and communities where like-minded, success-oriented individuals come together and help one another succeed.

### Commencement Marshals

The role of Commencement Marshal is one of the highest honors the college awards to non-graduating curriculum students. Graduation marshals are nominated by staff and faculty and appointed by the Director of Admissions and Students Records based on their involvement in and contribution to the campus community. To be considered for the honor of Commencement Marshal, a student must have a cumulative GPA of 3.5 or above and cannot be graduating the academic year when the ceremony is held. Commencement marshals are involved in every aspect of the commencement ceremony, from the rehearsal, opening procession, and seating of the candidates to the concluding recessional. Their participation is critical to the ceremony’s success.

### Graduation with Distinction/Honors

Students who demonstrate high levels of scholarship through completion of their programs of study will graduate with distinction. This recognition is awarded to graduates who achieve a cumulative GPA of 3.50 or better for all coursework completed at the College.

Students who graduate from a **certificate** or **diploma** program with a cumulative GPA of 3.5 or better will earn "Honors" designation.

Students who graduate from an **associate degree** program with a cumulative GPA of 3.50 or better will earn honors as outlined below:

- 3.50 Cum Laude
- 3.75 Magna Cum Laude
- 3.90 Summa Cum Laude

All candidates will be recognized at the annual commencement ceremony.

## Academic Forgiveness

A student who has not been enrolled in curriculum courses in the College for 24 consecutive months since their last grade of “F” may request that the Registrar re-evaluate the student’s academic records. This policy will allow a student to request that any previously earned grades of “F” be removed from the calculations of the cumulative grade point average. Prior to the re-evaluation, the student must enroll in Craven Community College, or any other of the 57 community colleges in North Carolina and complete at least 12 credit hours with a minimum of a “C” (quality point average of 2.0) in each course. Previously earned grades of “F” will still be reflected on the transcript; however, at the student’s request, the Registrar will

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recalculate the student's cumulative GPA as appropriate. This re-evaluation will be done only once for each student.

## Good Academic Standing

A student who maintains a cumulative grade point average (GPA) of 2.0 or above is considered to be in good academic standing with the College. Some programs or curricula within the College have different, specific, or higher academic requirements which shall supersede general statements made in the General Catalog or other college publications. Each student shall be responsible for knowing and understanding the specific rules, regulations, and standards which apply to the program or curriculum in which he or she is enrolled.

Students whose averages fall below 2.0 will be notified. Students not maintaining good academic standing will be encouraged to consider a different program of study, developmental studies, lighter course load/work schedule, extra study in the Academic Support Center, or the assistance of a tutor. During the next enrolled semester, the student should show significant progress towards satisfying graduation requirements.

Failure to maintain good academic standing may negatively impact a student's ability to receive financial aid.

## Academic Warning

A student who fails to maintain an overall/cumulative grade point average of 2.0 after one semester of enrollment will receive a notice from Student Services that he or she is placed on Academic Warning and is required to attend an advising session. Referral for learning assistance, reduced course load, development of an academic action plan, and/or change of program may result from the session.

During the fall and spring semesters, students on academic warning may register for a maximum of nine (9) credit hours. Students are strongly encouraged to take either seated or hybrid classes.

During the summer semester, students may register for up to six (6) credit hours. Students are strongly encouraged to take either seated or hybrid classes.

## Academic Probation

A student who fails to maintain an overall/cumulative GPA of 2.0 after two consecutive semesters of enrollment will receive notice of Academic Probation and is required to attend a comprehensive advising

session. Referral for learning assistance, reduction in course load, development of an academic action plan, and a discussion of program/educational aspirations should result from this session.

During the fall and spring semesters, students on academic probation may register for a maximum of nine (9) credit hours. Students are strongly encouraged to take either seated or hybrid classes.

During the summer semester, students may register for up to six (6) credit hours. Students are strongly encouraged to take either seated or hybrid classes.

Students who attain a semester GPA of 2.5 or better meet Satisfactory Academic Progress requirements.

## Other Academic Related Information

- Each student participating in a field trip must sign a Release Form which must be returned to the appropriate dean/designee prior to the field trip. No student will be allowed to travel without a completed and signed Release Form.
- Persons attending a class, lab, or shop must be registered students.
- When inclement weather or other conditions warrant closing the College, students are notified through the College's website and RAVE alert system. Local TV and radio stations are notified and the information is posted on the College's social media accounts.

## Student Records and Confidentiality

The College qualifies as an educational institution within the meaning of the Family Educational Rights and Privacy Act (FERPA). FERPA affords eligible students certain rights with respect to their education records. An "eligible student" under FERPA is a student who has reached the age of 18 years or who attends a postsecondary institution at any age. These rights include:

1. The right to inspect and review the student's education records within 45 calendar days after the College receives the request.

The student should submit to the College Registrar a written request that identifies the record(s) to be inspected. The Registrar will coordinate with the student for a time and location for the review. If the Registrar does not possess the requested documents, the Registrar

# Academic Information

will advise the student, and coordinate the request with any other College office or employee that possesses it.

2. The right to request an amendment of the student's education records that the student believes is inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

The student should submit to the College Registrar a written request that identifies the record(s) to be amended, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If the College decides not to amend the record as requested, the College will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to provide written consent before the college discloses personally identifiable information (PII) from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

Students may elect to release their PII to specified third-party individuals by completing College Form 3.7.1a. *Student Release of Information*. This release may be withdrawn at any time, using the same form.

As permitted by FERPA, the College may disclose certain education records without a student's prior written consent as follows:

- *For disclosure to school officials with legitimate educational interests,*
  - A school official is a person employed by Craven Community College in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted as its agent to provide a service instead of using College employees or officials (such as an attorney, auditor, or collection agent); a member of the College's Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

- A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the College.
- *On the student's application for financial aid,*
- *To submit proof of dependency,*
- *In response to a judicial order or subpoena,*
- *For a bona fide health or safety emergency,*
- *As information that has been requested by other agencies or schools in which the student seeks or intends to enroll or is already enrolled when the disclosure is related to the student's enrollment or transfer, and,*
- *Certain information the college has designated as "directory information" and is defined as information which would not generally be considered harmful or an invasion of privacy if disclosed, unless the student specifically requests in writing that all such information not be made public without written consent.*
  - The College has designated the following as "Student Directory Information."
    - Name
    - Participation in officially recognized courses, programs, and other college activities
    - Address
    - Telephone listing
    - Weight and height of athletic team members
    - Degrees, honors, and awards received
    - Date and place of birth
    - Major field of study
    - Dates of attendance
    - Educational agencies or previous institutions attended
  - Students have the right to withhold disclosure of any directory information to third parties by completing College Form 3.7.1b, *Directory Information Non-Disclosure* and submitting it to the Registrar's Office. The request will remain active for the duration that a student is attending the College, unless the student rescinds the withholding. The College assumes that a student's failure to file a request for non-disclosure indicates approval for disclosure.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Student Privacy Policy Office  
U.S. Department of Education  
400 Maryland Avenue, SW  
Washington, DC 20202

# Academic Information

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## Transcript Requests

All student records are held in confidence by the College. Transcripts will be released only upon request of the student. A student must authorize the release before a transcript will be sent to other colleges, employers, or other agencies. [A transcript may be ordered online on the college website.](#) There is a fee for each transcript.

## Student Rights and Responsibilities

The policies and procedures related to students are developed and enforced to ensure that all students have a positive educational experience while attending the College and that the College operates in a manner that fulfills its mission. Consistent with its educational mission, the College desires to promote student understanding of the balance between individual privileges and college responsibilities, as well as to provide everyone in the college community a safe environment, conducive to student learning and success. Students are expected to familiarize themselves with and be accountable for information contained in all college publications (catalog, student

handbooks, information provided through student email, course schedules, syllabi, etc.) relating to student responsibilities.

In general, all students are expected to conduct themselves in a manner that promotes and supports both students' educational endeavors and objectives of the College.

These policies and procedures address a number of student-related issues:

- Student Rights and Responsibilities
- Acceptable Use of College Technology
- Student Disability Appeal Process Procedure
- Drug and Alcohol Use
- Sexual and other Prohibited Harassment
- Appeal Procedures
- Code of Conduct Policy
- Academic Honesty Procedure
- Tobacco Prohibition Policy
- Student Disciplinary Procedure
- Student Governance
- Student Publications
- Student Grievance Procedure

[Students should view these and other student policies and procedures in their entirety on the Craven CC website.](#)

# Degrees and Programs

## Associate Degrees

Craven Community College is authorized by the Southern Association of Colleges and Schools Commission on Colleges, (SACSCOC) to award nine degrees – the Associate in Arts (AA), the Associate in Arts in Teacher Preparation (AATP), the Associate in Science (AS), the Associate in Science in Teacher Preparation (ASTP), the Associate in Engineering (AE), the Associate in Fine Arts in Visual Arts, the Associate in Fine Arts in Music (AFA), the Associate in General Education (AGE), and the Associate in Applied Science (AAS).

The Associate in Arts, Associate in Arts in Teacher Preparation, Associate in Science, Associate in Science in Teacher Preparation, Associate in Engineering, Associate in Fine Arts in Visual Arts and Associate in Fine Arts in Music degrees are designed for students who intend to transfer to four-year colleges or universities. The Associate in General Education is designed to meet the needs of students who are primarily interested in only two years of college. The Associate in Applied Science degree is awarded in professional/ technical fields and is designed to prepare the graduate for the demands of the workforce.

## Certificate/Diploma Programs

Craven Community College also offers a number of certificate and diploma programs. These programs are shorter in duration than degree programs and are designed to develop job-entry skills at the collegiate level.

## Graduation Requirements

1. Students must complete the minimum number of course credit hours prescribed for their program of study.
2. Students must complete a minimum of 25% of their program credit hours at Craven Community College.
3. Students must have a minimum 2.0 cumulative grade point average.

4. Students must complete these requirements within three years after the last term they attended Craven if they intend to transfer credits to graduate.
5. Students must settle all financial obligations with the College.

The credential earned depends upon the educational and career goals of the individual. Each program offered at Craven Community College is listed by title on the pages that follow with a description of the purpose, goals, and specific course requirements.

## General Education Learning Outcomes

Assessment of learning outcomes is an essential component of effective instruction, whereby results of outcomes assessment guide curriculum development for continuous improvement. The institution is also mandated by our accrediting agency, the Southern Association of Colleges and Schools Commission on Colleges, (SACSCOC), to document the process, results, and improvement plans related to the assessment of learning outcomes. In the Associate in Arts, Associate in Arts in Teacher Preparation, Associate in Science, Associate in Science in Teacher Preparation, Associate in Engineering, Associate in Fine Arts in Visual Arts, Associate in Fine Arts in Music, Associate in General Education, and Associate in Applied Science degree programs, students must complete a series of general education core courses. Upon completion of these degree programs, students must demonstrate certain competencies which are collectively known as the General Education Learning Outcomes.

Upon completion of an associate degree, Craven Community College students should be able to:

- Demonstrate an understanding of global diversity, global events, and global issues.
- Effectively use oral, written, and nonverbal communication skills.
- Apply basic mathematical skills and knowledge.
- Research, analyze, synthesize, and evaluate information.
- Demonstrate the ability to work collaboratively with others in an atmosphere of mutual respect.
- Utilize technology to facilitate learning.

# Workforce Development

## Course Information

Workforce Development offers a wide variety of non-credit courses and programs. Curriculum credit will not be awarded but in most programs continuing education units (CEUs) are awarded. Additionally, many of the courses lead to state or nationally recognized credentials, licensing, or certification. Programs are developed and offered based on the community's expressed needs in workforce/occupational training, upgrading of work skills, and vocational improvement. Please contact the College if you have a specific request for a course.

### Admission

Any adult is eligible to attend classes offered on campus or at any of the several adult education classroom areas used by the College.

Any student admitted to class must be at least 18 years of age. A minor 16-17 years of age may be admitted with parental permission required unless married, emancipated, or serving in the military.

Individuals having special high school education needs who do not meet the above requirements may be assisted by special agreement between local public-school officials and the administration of Craven Community College.

### Fees

The registration fee for Occupational Extension courses ranges from \$70.00 to \$180.00 depending on the number of class hours. There is no charge for job-related courses for law enforcement, fire fighters, and rescue personnel for those that qualify. The tuition charged for Workforce Development/ Occupational Extension Courses is determined by the North Carolina State Board Code. A charge/fee may be necessary in some courses for class supplies and liability or accident insurance. Workforce Development fees are subject to change for the duration of this catalog. Self-supporting registration fees vary and there are no fee exemptions for self-supporting courses.

### Class Locations

Workforce Development classes are offered at the New Bern and Havelock Campuses and the recently established Volt Center, located at 205 First Street in New Bern. Classes can be held at locations away from the Craven Community College campuses where suitable locations can be arranged and student interest justifies the classes. Classes have been held in schools, community centers, and businesses. Classes are also offered through distance education platforms.

### Attendance

Students are expected to attend class regularly. Attendance records are maintained by class instructors. Students must usually attend a minimum of 80% of class hours in Occupational/Workforce Courses in order to receive Continuing Education Units (CEUs). Some Occupational/Workforce courses require 100% student attendance in order to receive CEUs. Regular attendance helps maintain continuity in classroom work, justifies the existence of the class, and assures the student of accomplishment.

### Schedules

Workforce Development classes are announced by published schedules and web pages during the year. In addition, Workforce Development classes are scheduled when a need for the class is established, space exists to teach the class, and an instructor is available. Tailored training courses can be scheduled by request. The programs do not begin and conclude on a semester schedule as curriculum programs do. Classes in most subjects can be arranged upon request in most cases; however, the College reserves the right to postpone or cancel classes due to insufficient enrollment.

### Refund Policy

Students in Occupational Extension classes may request a registration fee refund by filling out an official withdrawal/refund request form in the Workforce Development office at the New Bern Campus or Havelock Campus offices.

The student will be eligible for a 100% tuition refund if he/she officially withdraws from the class(es) prior to the first class meeting.

The student will be eligible for a 100% tuition refund if an applicable class is cancelled due to insufficient enrollment without completing the request form.

The student will be eligible for a 75% tuition refund if the student officially withdraws from a class that has begun if the official withdrawal from the class is prior to or on the 10% point of the scheduled hours of the class.

The student will be eligible for a 75% tuition refund if the student officially withdraws from a contact hour class prior to or on the 10th day from the first class meeting.

All registration fee(s) for the course may be refunded to the estate of the deceased if the student, having paid the required registration fee for a course, dies during that course (prior to or on the last scheduled class day). Additional provisions of the refund policy, including those regarding self-support classes and student fees, are available upon request.

# Workforce Development

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## Certificates

Completion certificates are awarded to students meeting requirements for most Workforce Development classes and programs.

## Continuing Education Unit (CEU)

The Continuing Education Unit (CEU) was designed to recognize and record individual and institutional participation in nontraditional studies and special activities. The CEU meets the need in Workforce Development education for uniformity in the planning of educational experience for technical and professional people who seek to improve their competency and skill levels through staff development type training.

Craven Community College has adopted the CEU as a system for record keeping and quality control in programs of educational activities in Workforce Development.

## Official Withdrawal from a WFD/CE Course

To withdraw from a WFD/CE course, a student must complete the WFD/CE withdrawal form.

The coordinator of the course you are taking has access to the form. The student will have to discuss withdrawing with the coordinator. If the student is attending the WFD/CE course on a scholarship, it may impact you financially so be sure to speak with the coordinator of the course. Additionally, withdrawing may impact future scholarship offerings.

If you are a student using VA benefits, there may be penalties and you will need to let the campus VA Representative know that you have dropped the course.

## Veterans Benefits and Workforce Development

Eligible veterans and dependents of disabled or deceased veterans are invited to take advantage of the College's educational offerings. The College cooperates with the Department of Veterans Affairs (DVA) and the North Carolina State Approving Agency (SAA) in assisting eligible veterans/dependents with their VA education benefits.

Students may contact the Office of Veterans Affairs at 252-638-7231 or visit Craven CC's [Military Affairs Resource webpage](#) for more information regarding all military benefits.

Not all courses in Workforce Development are approved for use with VA Educational Benefits. Workforce Development students interested in using their VA Benefits with a Workforce Development course must work with the Veteran's Affairs office at the number posted above, or in-person, to ensure that their VA Educational Benefits are current and they have all necessary paperwork. Students using their VA Benefits will not be allowed to register in Workforce Development VA approved courses until they have been approved by the Veterans Affairs Office or the Military Affairs Resource Center Coordinator. For a complete listing of the courses approved for use with VA Educational Benefits, refer to the college website's [Workforce Development course page](#).

***Note: The tuition rates for Workforce Development courses are determined by the North Carolina Legislation and the North Carolina Community College System Office. The rates are subject to change at the beginning of the North Carolina State government fiscal year which begins July 1.***

# Workforce Development

## Grade Descriptions

Many of the course grading schemes in WFD/CE are set by the certifying organization such as NCCER, NC DOJ Standards and Training, Office of the State Fire Marshall, Office of Emergency Medical Services, NC Real Estate Commission, Federal Aviation Administration, etc. In these courses, WFD/CE must abide by the grading scheme prescribed by the certifying body. In all other courses, the below grading scheme will be followed and may be the same in some certification courses:

Letter Grade	Letter Definition	Description	Quality Points/GPA
P	Pass	Successful mastery of all course requirements as specified by the instructor or certifying body.	N/A
S	Satisfactory	Successful completion of all course requirements as specified by the instructor or certifying body but student is waiting to take the certification exam.	N/A
U	Unsatisfactory	Student failed to successfully meet the course requirements as specified by the instructor or certifying body. Not qualified to take certification exam.	N/A
I*	Incomplete Grade	Temporary grade assigned at the discretion of the instructor. Student had extenuating circumstances and did not complete a written exam, performance module/lab or a requirement needed for certification.	N/A
F	Failing	Failure to successfully complete all course requirements as specified by the instructor. Only award this grade if certifying agency prescribes it.	N/A
W	Withdrawal	Official withdrawal from the course. Student must complete course withdrawal form with the coordinator. The Withdrawal grade is given to distinguish that the student voluntarily withdrew and did not just quit coming to class with no explanation.	N/A
SR	Audit	Seniors (65 and older) can "Audit" courses in WFD/CE. Seniors do not have to pay tuition but no certification can be awarded nor a grade. Those "Auditing" courses are required to pay any course fees if applicable.	N/A
AW**	Automatic Withdrawal	Instructor withdrawal of the student from course for excessive absences. Typically awarded after the student has missed beyond 20% of the class scheduled hours with no communication with the instructor.	N/A
N/A	Never Attended	This would apply to courses where no refund is available once registered such as Motorcycle Safety: Basic Rider Course.	N/A

*\*It is the student's responsibility to contact the coordinator regarding work to be completed for the*

*removal of the "I" grade. The student must work with the coordinator of the course to determine a number of days the students has to complete course requirements to receive a grade of "P". If the student doesn't complete in the time specified by the coordinator or certifying body, the grade will be changed to a "U".*

*\*\*Students must attend 80% of scheduled class time in order to receive a passing grade. Once a student has missed more than 20% of scheduled class time, the student will receive a grade of "AW".*

## Career Courses

You can learn new job skills or upgrade your current knowledge and ability through Craven's Workforce Development training programs. We offer a wide variety of courses, whether it is traditional, online, or hybrid. These courses are intended to provide training to upgrade a person's skills or qualifications or assist in preparing an individual for a new career. These classes can be a single course or a series of courses designed for a specific job area.

A variety of courses are also offered to our military partners at MCAS Cherry Point for the purpose of enhancing and updating individual skills. Additionally, these courses provide military family members an opportunity to acquire new skills, making themselves marketable to the local economy.

## Business and Technology

Workforce Development partners with businesses, organizations, and the military to provide customized, high-quality programs, services, and courses. These programs can be tailored by topic to meet training needs by customizing any learning experience to fit any unique requirements.

Craven Community College delivers quality programs and services to satisfy a variety of business and employee needs in the areas of computer, office, personnel, and soft skill training. Courses are designed for adult learners and offer modern methods, skills reinforcement, and active learning. Lively, hands-on, and informative, the courses are guaranteed to solve a variety of workplace challenges.

## Environmental Safety Programs

The Environmental Safety Programs support the economic development efforts of the State of North Carolina by providing education and training opportunities for eligible businesses and industries.

These courses are a fundamental overview of the recognition and avoidance of unsafe conditions on the job sites, plant operations, retail stores and food

# Workforce Development

service facilities and will provide the student with a basic understanding of OSHA regulations, enforcement, and compliance for environmental standards. Topics include discussions of the OSHA standards that relate to safety management, hazard recognition, the inspection process, required safety programs, and areas of general industry most often cited. We offer courses that address OSHA regulations regarding employees entering, working, or exiting those workplaces which may present physical or health hazards or contain a hazardous atmosphere. Courses will also teach service and maintenance personnel the basic fundamentals and procedures of the OSHA Lockout/Tagout standard and the importance of energy control and isolation in the safe service and maintenance of equipment.

## Human Resources Development (HRD)

The Human Resources Development Employment Readiness Program provides short-term pre-vocational training and counseling for those unemployed, underemployed, laid off, and those looking to make a career change, entering the workforce, or beginning new careers. The content focuses on how to find and keep a job along with career explorations. Our instructors teach students to assess their strengths and weaknesses, develop problem-solving and communication skills, develop a positive self-image, improve academic skills, and understand the dynamics of interpersonal relationships. Students also learn how to successfully market themselves to potential employers.

## Health Programs

Craven Community College health care training plays an active role in the continuing education of the citizens of Craven County and surrounding areas desiring to prepare themselves for employment in the ever-evolving healthcare field.

Workforce Development health care programs provide courses for those who need to train, retrain, and update themselves in a health care field or professional area. The Workforce Development programs offered are of the highest quality both in classroom/lab and clinical instruction.

## Public Safety Programs

Through the Public Safety program, we deliver training in the areas of Emergency Medical Services, Fire Services, and Law Enforcement. Students are able to obtain certifications that lead to initial employment or advancement. Students in these courses qualify for a tuition waiver based on affiliation with an authorized volunteer, municipal, county, or State organization.

The Emergency Medical Service Program provides certification in CPR, First Aid, Medical Responder, EMT (Emergency Medical Technician), and Paramedic. Continuing Education is available to rescue squads, ambulance services, fire departments, and law enforcement agencies. CPR and EMT recertification classes are also offered. Fee-based classes in this program are available to interested citizens, business, industries, and church groups. Classes are held on campus, online, and throughout the county.

Our quality Fire and Rescue Training includes Fire Fighter I & II Certification Courses, NC Technical Rescuer, Rescue Specialties: Trench, Confined Space, Collapse, Ropes, and Water. We offer various other courses to help firefighters fulfill the requirements and needs of their respective departments (both volunteer and paid). Our skilled instructors ensure safe, innovative, and informative classes.

The Law Enforcement Training Programs are designed to train and upgrade personnel in basic law enforcement, detention officer, 911 Telecommunicators, and firearms. From a pool of state and local instructors, we work to meet the training needs and desires of law enforcement departments within Craven County.



## Customized Training Program

The Customized Training Program provides education, training, and support services for new, expanding, and existing business and industry in Craven County. Training experts work closely in partnership with employers to tailor programs to meet specific needs. The goal of Customized Training is to foster and support three key aspects of a company's well-being:

- Job Growth
- Technology Investment

- Productivity Enhancement

## Small Business Center

The objective of Craven Community College's Small Business Center (SBC) is to increase the success rate and the number of viable small businesses in Craven County by providing high quality, readily accessible assistance at low to no cost to perspective and existing small businesses in the form of workshops, counseling, networking, and resource referral.

SBC's Resource Center provides workspace, free computer and Internet access, printer access, and access to resources.

For more information, [visit the SBC website](#) or call 252-638-1166.

## Military Business Center

Craven Community College offers a Military Business Center (MBC) which is a satellite office of the NC Military Business Center (NCMBC). The mission of the NCMBC is to leverage military and other federal business opportunities to expand the economy, grow jobs and improve quality of life in North Carolina. The local MBC office at Craven Community College helps identify the most lucrative federal contract opportunities (prime and subcontracts), notify and pre-position North Carolina firms for specific opportunities, and assist firms to understand government solicitations, prepare winning proposals, and to successfully execute federal contracts. To connect North Carolina businesses with all federal opportunities, including local opportunities at bases in the state, the NCMBC administers the State's official, FREE web portal for federal contracting – [www.MatchForce.org](http://www.MatchForce.org). Full information about the NCMBC can be found online at: <https://www.ncmbc.us>.

# College & Career Readiness and Literacy Programs

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## Overview

The mission of the College & Career Readiness (CCR) program is to provide educational opportunities for adults who wish to improve their academic skills, complete their high school equivalency or diploma, and learn English language skills while also preparing for post-secondary education and/or employment. Students will be able to attend classes day or evening on both campuses and at various locations in Craven County. All classes are free of charge and most materials are provided. For students aged 16 or 17 years old, special permission from a parent/guardian and the school district must be received before enrolling in any class in the CCR unit.

## Programs

### Adult Basic Education

This program is designed for students who function below the high school level based upon placement test scores. Instruction is developed by qualified instructors, using individual placement diagnostics that will help students meet their educational goals. Students must complete First Step class before enrolling to better determine needs.

### First Step

The First Step class is required for all students enrolling in adult high school diploma or equivalency classes. The two-week class is packed with important information that will include placement testing, assessment of educational barriers, learning styles, and career interests. Students will be given one-on-one advising and take their first step in completing their secondary education.

### Adult High School

The Adult High School program helps individuals earn a diploma by offering classes to students with 14 or more qualifying high school credits. After the First Step class, students meet with qualified instructors to complete the specific classes needed. Additional hours may be earned online.

### High School Equivalency

An alternate path to a high school diploma is the high school equivalency (GED, HiSET). After completing First Step or upon movement in the program, students are placed with qualified instructors for math/science and reading/language/social studies classes to prepare for the official exams. Online classes are available for those who qualify.

### Transitions Academy

The Transitions Academy provides adults who have mild intellectual disabilities with the opportunity to continue their education by increasing skills in math, reading, and technology. This program also uses hands-on learning in career exploration to prepare students for work and other post-secondary programs.

### English as a Second Language

ESL classes provide non-native speakers with instruction in speaking, listening, reading, and writing to improve English language proficiency in community, social, educational, and employment settings. Class information will also include citizenship preparation.

### Family Literacy

The Family Literacy program is for parents who require childcare while attending classes to complete their high school equivalency or enroll in English as a Second Language classes. This program is in partnership with Craven County Schools and located at James W. Smith Elementary, J.T. Barber Elementary, and Vanceboro Farm Life Elementary. It is tuition waived with childcare, transportation, breakfast, and lunch included. Students will also participate in parent/child classes as part of the program.

### Digital Literacy

The Digital Literacy classes offer instruction from beginner to intermediate levels for those interested in gaining computer skills. Students will be able to earn credentials and badges through the NorthStar Digital Literacy curriculum while receiving hands on learning.

# Lifetime Learning Center

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The Lifetime Learning Center, a division of the Craven Community College Foundation, provides supplemental experiences for adults to learn about history, culture, arts and more, in arenas that reach beyond the classroom. The College is keenly aware of Craven County's growing population of accomplished adults and offers them a variety of opportunities to participate in lifelong learning experiences that span a wide variety of interest areas that include: Explorations: The

International Film and Lecture Series – a free series held on the New Bern Campus at Orringer Auditorium from September to April each year; day trips to see touring Broadway shows, ballet and opera performances; special art and history exhibits and historic sites; overnight trips to visit cities, historic sites, museums and gardens; and international trips for the exploration of history and world cultures.

# Understanding Course Descriptions

## How to Read Course Descriptions

Courses are identified by a six-character alpha numeric code. The first three characters identify the subject code and the next three numbers identify the particular course per the North Carolina Common Course Library of offerings.

This listing of courses includes prerequisites, corequisites, and fees associated with courses. In addition, the number of lecture, lab, clinic, and credit hours are shown per course. For example:

Course Code	Description	Lecture	Lab	Clinic	Credit
SPA 111	Elementary Spanish I:	3	0	0	3
Prerequisites:	ENG-002; or satisfactory reading and writing placement scores				
Corequisites:	SPA 181				
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. <b>This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.</b>					
Course Code	Description	Lecture	Lab	Clinic	Credit
SPA 181	Spanish Lab 1:	0	2	0	1
Prerequisites:	None				
Corequisites:	SPA 111				
This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. <b>This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.</b>					

SPA 111, Elementary Spanish I, notes a prerequisite of ENG-002; or satisfactory reading and writing placement scores. This means that a student must have successfully completed ENG-002 or have reading and writing scores on the College Placement Test that indicate college readiness. Prerequisites must be met for a student to enroll in a course.

SPA 111 also notes a corequisite of SPA 181. This means that a student must enroll in SPA 181 during the same term he/she enrolls in SPA 111. Corequisites must be taken together as the learning experiences in each course complement one another.

SPA 111 has 3 lecture hours; this means that the course will meet for three hours each week in a typical 16-week semester. If the course is offered in an 8-week session, the course will meet for six hours each week.

SPA 111 has no lab hours in addition to the lecture hours nor does it have clinical hours.

Upon successful completion of the course, a student will receive three credit hours of credit towards the educational goal.

SPA 181 has zero lecture hours and two lab hours. This means the student will be in a lab experience for two

hours per week in a 16-week semester, four in an 8-week term, and receive one hour of credit towards the educational goal.

Course Code	Description	Lecture	Lab	Clinic	Credit
ART 131	Drawing I:	0	6	0	3
Prerequisites:	None				
Corequisites:	None				
Fee: \$35					
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. <b>This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.</b>					

Note the \$35 Fee associated with the course. Fees are assessed in particular courses for which college resources are consumed to a greater degree than others.

Note also that this course requires six hours of lab in a week (in a 16-week semester) and the student receives three hours of credit upon successful completion.

## Selecting Courses

Academic and financial considerations preclude the College offering all the courses listed each semester. The College reserves the right to cancel courses offered based upon budgetary, enrollment, or staffing needs.

Students should consult an academic advisor and refer to the recommended sequence of courses in the Plans of Study section of this catalog to strategically plan each semester to ensure efficient progress through the degree requirements. Registration periods are noted on the Academic Calendar contained in this catalog and also published on the college website.

The schedule of course offerings (Course Schedule) is published twice annually: the Summer and Fall Course Schedule and the Spring Course Schedule. [The course schedule is published on the College website.](#)

## Delivery Method Definitions

- **Traditional:** College curriculum or continuing education course in which 100% of the instruction is delivered face to face with the instructor and student **not** separated by distance. This is true even when some instructional activities are conducted using web-based technology.
- **Online Course/Internet:** College curriculum or continuing education course in which 100% of the instruction is delivered via the Internet/online. Courses may have proctored testing but instruction is delivered online.

# Understanding Course Descriptions

- **Hybrid:** College curriculum or continuing education course in which >50% but <100% of instruction is delivered when the student and the instructor are separated by distance. Instructional delivery methods may include but are not limited to: Internet, LMS, licensed instructional video, CD, TV, DVD, instructional software, or other media.
- **Blended:** College curriculum or continuing education course in which <50% of instruction is delivered when the student and the instructor are separated by distance. Instructional delivery methods may include but are not limited to: Internet, LMS, licensed instructional video, CD, TV, DVD, instructional software, or other media.
- **HyFlex:** College Curriculum courses that integrate both face-to-face and virtual learning options, giving students the choice (each time the class meets) to attend in person, virtually, or online. Some hyflex courses may not offer the online attendance option. Check the course descriptions in Self-Service for more information.

## Online Learning

Craven Community College offers a wide variety of distance learning programs and courses to accommodate the busy lives of our students. Distance learning provides flexibility and convenience so that students can learn anytime and anywhere. Distance learning is sometimes referred to as online or eLearning and has become a popular and effective option for program and course completion at Craven Community College with most students enrolling in at least one distance course each semester. Moodle is our primary Learning Management System (LMS) and faculty use it, along with other online resources, to deliver instruction and interact with students. Interaction is an important component of distance learning to ensure that students are engaged and connected to their instructor and other students.

There are three main types of distance learning courses at Craven Community College: Online, Hybrid, and HyFlex. A course is designated as online when 100% of the course is accessed via the Internet. A hybrid course includes 50-99% instruction online with the remaining instruction occurring in the classroom. Our hyflex courses are another flexible option for students. These classes integrate both face-to-face and virtual learning options, giving students the choice (each time the class meets) to attend in person, virtually, or online. Please check the course descriptions in Self-Service for more information.

### Technology Requirements

Students enrolling in distance learning courses must have Internet access for all distance learning courses.

A broadband connection is highly recommended. There are several locations on campus that have computers available for student use:

- Academic Support Center – New Bern and Havelock Campuses
- Godwin Memorial Library – New Bern Campus

### Hardware Requirements

- 1 GHz processor minimum, 2 GHz dual-core or faster processor is recommended
- 2 GB of RAM minimum, 4 GB or more is recommended

### Software Requirements

- Most current version of Windows/Most current version of MAC OS
- Web Browser – Most current version of Chrome, Firefox, Safari, and Edge
- Email – Students are required to use their school email account for use with distance learning courses
- Antivirus software – Any current brand (McAfee or Norton) installed, running, and kept current by promptly installing the upgrades and patches made available by the software manufacturer
- Word-processing software – Microsoft Word or other word processing software is required. Students not using Microsoft Word must be able to save their documents in “RTF” (Rich Text Format)

**Please note that some programs may have additional hardware and software requirements.**

## Work-Based Learning

Work-Based Learning allows students to gain academic credit through work experience related to their program of study. This plan integrates classroom learning with employment and is based on the principle that education extends beyond academic achievement and is equally dependent upon practical experience.

Students enrolled in the Work-Based Learning program follow a prescribed program of study for an associate degree. In lieu of elective courses, the student may participate in a supervised work experience. The work experience is planned, progressive, and closely related to the curriculum and career interest of the student.

Job performance is evaluated jointly by the employer, the student, and the College instructor, and the student’s letter grade is based on this evaluation.

Work-Based Learning is limited to particular programs of study (see Programs of Study). To be eligible, students must have completed at least nine (9)

# Understanding Course Descriptions

semester hours (including six (6) in the core curriculum), and maintain a minimum Grade Point Average of 2.5. Students should see an advisor for more information about this opportunity.

## Disciplines & Department Codes

Discipline	Dept. Code	Discipline	Dept. Code
Academic Related	ACA	German	GER
Accounting	ACC	Health	HEA
Aerospace/Flight Training	AER	History	HIS
Air Conditioning, Heating, and Refrig	AHR	Health Information Technology	HIT
Anthropology	ANT	Health Sciences	HSC
Art	ART	Humanities	HUM
Astronomy	AST	Hydraulics and Pneumatics	HYD
Automation and Robotics	ATR	Industrial Science	ISC
Automotive Technologies	ATT	Italian	ITA
Automotive	AUT	Law Enforcement Training	LET
Aviation Maintenance	AVI	Machining	MAC
Banking and Finance	BAF	Maintenance	MNT
Biology	BIO	Mathematics	MAT
Blueprint Reading	BPR	Mechanical	MEC
Business	BUS	Medical Assisting	MED
Business Analytics	BAS	Marketing and Retailing	MKT
Chemistry	CHM	Music	MUS
Information Systems	CIS	Networking Technology	NET

Criminal Justice	CJC	Networking Operating System	NOS
Communication	COM	Nursing	NUR
Cosmetology	COS	Operations Management	OMT
Computer Science	CSC	Office Systems Technology	OST
Computer Technology Integration	CTI	Physical Education	PED
Computer Information Technology	CTS	Philosophy	PHI
Database Management Technology	DBA	Physics	PHY
Developmental Mathematics	DMA	Plastics	PLA
Developmental Mathematics Shells	DMS	Political Science	POL
Developmental Reading/English	DRE	Psychology	PSY
Drafting	DFT	Physical Therapist Assistant	PTA
Drama/Theatre	DRA	Religion	REL
Economics	ECO	Information Systems Security	SEC
Education	EDU	Sociology	SOC
Engineering	EGR	Spanish	SPA
Electricity	ELC	Sustainability	SST
Electronics	ELN	Transportation Technology	TRN
English	ENG	Unmanned Aircraft Systems	UAS
Entrepreneurship	ETR	Work-based Learning	WBL
French	FRE	Web Technologies	WEB
Geology	GEL	Welding	WLD
Geography	GEO		

# 2025 - 2026 Academic Calendar

## Fall 2025

FALL SEMESTER	2025
Final Registration for Regular and A Terms	August 11 - 15
Faculty Workdays	August 14 - 15
Classes Begin (Regular/A-Term)	August 18
75% Refund/Last Day to Drop Classes without W (A-Term)	August 22
College Convocation	August 22
75% Refund/Last Day to Drop Classes without W (Regular-Term)	August 28
Last Day to Submit Fall 2025 SAP Appeals	August 29
Labor Day Holiday (College Closed)	September 1
Attendance Verification Due (Regular/A-Term)	September 4
Last Day to Register for Flex-Term Classes	September 15
Classes Begin (Flex-Term)	September 16
Financial Aid Grant Disbursement (Regular/A-Term)	September 19
75% Refund/Last Day to Drop Classes without W (Flex-Term)	September 23
Last Day to Withdraw from Class or Audit (A-Term)	September 25
Attendance Verification Due (Flex-Term)	September 29
Last Day to Remove an Incomplete Grade for Spring/Summer-Terms	October 13
End of A-Term	October 13
Last Day to Register for B-Term Classes	October 13
Grades Posted/Attendance Rosters Due by 2:00 p.m. (A-Term)	October 14
Faculty Workday (No Classes) or Make-Up Day for Official Cancellation	October 14
Last Day to Apply for Fall Graduation	October 15
Classes Begin (B-Term)	October 15
Financial Aid Grant Disbursement (Flex-Term)	October 17
75% Refund/Last Day to Drop Classes without W (B-Term)	October 19
Attendance Verification Due (B-Term)	October 22
Spring Priority Registration	October 27 - 31
Last Day to Withdraw from Class or Audit (Regular-Term)	November 3
Open Registration Begins	November 3
Faculty Workday/Professional Development (No Classes) or Make-Up Day for Official Cancellation	November 10
Veteran Day Observed Holiday (College Closed)	November 11
Last Day to Withdraw from Class or Audit (Flex-Term)	November 14
Financial Aid Grant Disbursement (B-Term)	November 14
Last Day to Withdraw from Class or Audit (B-Term)	November 24
Student/Faculty Semester Break (No Classes)	November 26
Thanksgiving Holidays (College Closed)	November 27 - 30
End of Fall Semester (Regular/Flex/B-Term)	December 16
Faculty Workday	December 17
Grades Posted/Attendance Rosters Due by 5:00 p.m. (Regular-Term, Flex-Term & B-Term)	December 17
Holiday Break (College Closed)	December 24 - 31
<b>Note: Dates are subject to change</b>	
A-Term (8 Weeks):	August 18 - October 13
Regular-Term (16 Weeks):	August 18 - December 16
Flex-Term (12 Weeks):	September 16 - December 16

# 2025 - 2026 Academic Calendar

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B-Term (8 Weeks):	October 15 - December 16
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# 2025 - 2026 Academic Calendar

## Spring 2026

SPRING SEMESTER	2026
New Year's Observed Holiday (College Closed)	January 1 - 2
Staff Returns for Spring Semester	January 5
Final Registration for Spring Semester	January 5 - 9
Faculty Workdays	January 8 - 9
Classes Begin (Regular/A-Term)	January 12
75% Refund/Last Day to Drop Classes without W (A-Term)	January 16
Martin Luther King Holiday (College Closed)	January 19
75% Refund/Last Day to Drop Classes without W (Regular-Term)	January 23
Attendance Verification Due (Regular/A-Term)	January 27
Last Day to Register for Flex-Term Classes	February 9
Classes Begin (Flex-Term)	February 10
Financial Aid Grant Disbursement (Regular/A-Term)	February 13
75% Refund/Last Day to Drop Classes without W (Flex-Term)	February 17
Last Day to Withdraw from Class or Audit (A-Term)	February 19
Attendance Verification Due (Flex-Term)	February 23
Last Day to Remove an Incomplete Grade for Fall-Terms	March 9
End of A-Term	March 9
Faculty Workday (No Classes) or Make-Up Day for Official Cancellation	March 10
Grades Posted/Attendance Rosters Due by 2:00 p.m. (A-Term)	March 10
Last Day to Register for B-Term Classes	March 10
Classes Begin (B-Term)	March 11
Last Day to Apply for Spring Graduation	March 16
75% Refund/Last Day to Drop Classes without W (B-Term)	March 15
Financial Aid Grant Disbursement (Flex-Term)	March 13
Attendance Verification Due (B-Term)	March 23
Student/Faculty Semester Break (No Classes)	March 30 - April 3
Summer/Fall Priority Registration Begins	March 30 - April 3
Spring Holiday (College Closed)	April 3
Last Day to Withdraw from Class or Audit (Regular-Term)	April 6
Summer/Fall Open Registration	April 6
Financial Aid Grant Disbursement (B-Term)	April 13
Last Day to Withdraw from Class or Audit (Flex-Term)	April 15
Last Day to Withdraw from Class or Audit (B-Term)	April 24
End of Spring Semester (Regular-Term, Flex-Term & B-Term)	May 12
Grades Posted/Attendance Rosters Due by 5:00 p.m.	May 13
Faculty Workday	May 15
Graduation	May 15
<b>Note: Dates are subject to change</b>	
A-Term:	January 12 - March 9
Regular-Term:	January 12 - May 12
Flex-Term:	February 10 - May 12

# 2025 - 2026 Academic Calendar

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B-Term:

March 11 - May 12

# 2025 - 2026 Academic Calendar

## Summer 2026

SUMMER SEMESTER	2026
Final Registration for Summer Semester	May 18 - 20
Classes Begin (Regular/A-Term)	May 21
75% Refund/Last Day to Drop Classes without W (A-Term)	May 26
75% Refund/Last Day to Drop Classes without W (Regular-Term)	May 28
Attendance Verification Due (Regular/A-Term)	June 15
Memorial Day Holiday (College Closed)	May 25
Classes Begin (Flex-Term)	June 9
Last Day to Apply for Summer Graduation	June 15
Financial Aid Grant Disbursement	June 17
Attendance Verification Due (Flex-Term)	June 18
75% Refund/Last Day to Drop Classes without W (Flex-Term)	June 13
Last Day to Withdraw from Class or Audit (A-Term)	June 29
Independence Day Holiday (College Closed)	July 2 - 3
Last Day to Withdraw from Class or Audit (Regular-Term)	July 13
Last Day to Withdraw from Class or Audit (Flex-Term)	July 17
End of A-Term	July 20
Grades Posted/Attendance Rosters Due by 5:00 p.m. (A-Term)	July 21
End of Summer Semester (Regular & Flex-Term)	August 3
Grades Posted/Attendance Rosters Due by 5:00 p.m. (Regular-Term)	August 5
<b>Note: Dates are subject to change</b>	
A-Term:	May 21 - July 20
Regular-Term:	May 21 - August 3
Flex-Term	June 9 - August 3

## **New Bern Campus Map & Directions to 800 College Court, New Bern, 28562**

### **Arriving from Washington, NC or Upstate NC**

Take US 17 South to NC 43, which becomes Glenburnie Road, and turn right on College Court.

### **Arriving from Kinston, NC or Western NC**

Take US 70 East to NC 43 intersection (Glenburnie Road), turn right at stop light, and then right again onto College Court.

### **Arriving from Havelock, NC or Eastern NC**

Take US 70 West to NC 43 intersection (Glenburnie Road), turn left at stop light, and then right onto College Court.

### **Arriving from Jacksonville, NC or Southern NC:**

Take US 17 North to NC 43 intersection (Glenburnie Road), turn left at stop light, and then left again onto College Court.

# Campus Maps and Success Factors

# CRAVEN

COMMUNITY COLLEGE

**New Bern Campus**  
 800 College Ct.  
 New Bern, NC 28562  
 (252) 638-7200



★ Visitor parking is available in lots marked with a star

**Barker Hall** (003)

- Cashier
- Godwin Memorial Library
- Public Radio East
- Student Services - First Stop
- Admissions/Registration
- Advising
- Career & College Promise
- Financial Aid and Scholarships
- General Information
- Student Records
- Veteran Assistance
- Testing Center

**Bosch Advanced Manufacturing Center (AMC)** (028)

- Career & Technical Programs
- Drafting and Design
- Electronics
- Manufacturing Technology/Composites
- Welding

**Bender Center** (019)

- Craven Early College
- Basic Law Enforcement Training (BLET)

**Brock Administration** (001)

- Administrative Services
- Campus Security
- Executive Suite
- Financial Services
- Foundation
- Human Resources
- Institutional Effectiveness
- Workforce Development

**Bate Hall** (027)

- Bookstore
- Center for Teaching & Learning
- Computer Labs
- Arts & Sciences
- Technology Services
- University Transfer Partnerships (ECU, NC Wesleyan)

**Davis Maintenance** (022)

- Facilities and Maintenance
- Shipping and Receiving

**Kelso Hall** (011)

- Barbering
- Cosmetology
- Machining Center
- Massage Therapy
- Salon Services

**Orringer Hall** (012)

- Auditorium
- Fine Arts

**Perdue Hall** (018)

- Health Sciences
- Nursing Simulation Lab
- Science Labs

**Ward Hall** (035)

- Academic Support Center
- Automotive
- Campus Life/Student Engagement
- College & Career Readiness
- Fitness Room
- Naumann Community Room
- Student Lounge/Café/Vending
- TRIO

## **Havelock Campus Map & Directions to 305 Cunningham Blvd, Havelock, 28532**

### **Arriving from Washington, NC or Upstate NC**

Take US 17 South to US 70 East (in New Bern). Follow 70 East to Havelock. Turn left on State Route 101, then right onto Cunningham Blvd. The campus is on the left.

### **Arriving from Kinston, NC or Western NC**

Take US 70 East through New Bern and follow 70 East to Havelock. Turn left on State Route 101, then right onto Cunningham Blvd. The campus is on the left.

### **Arriving from Eastern NC**

Take US 70 West to Havelock, turning right onto Cunningham Blvd (at the airplane). The campus is on the right.

### **Arriving from Jacksonville, NC or Southern NC**

Take US 17 North to US 70 East (in New Bern). Follow 70 East to Havelock. Turn left on State Route 101, then right onto Cunningham Blvd. The campus is on the left.

# Campus Maps and Success Factors

# CRAVEN

COMMUNITY COLLEGE

**Havelock Campus**  
 305 Cunningham Blvd.  
 Havelock, NC 28532  
 (252) 444-6005

★ Information Desk



**Redd Building (305)**  
 Academic Support Center  
 Administrative Offices  
 Business Office  
 Campus Security  
 Student Services - First Stop  
 Admissions  
 Advising  
 Financial Aid  
 General Information  
 Student Lounge  
 Veteran Assistance

**Havelock-Craven County Public Library (301)**

**Institute of Aeronautical Technology (303)**

Aviation Management & Career Pilot  
 Aviation Systems Technology  
 Workforce Development

**STEM Center (307)**

Conference Room  
 Early College EAST  
 NC State Engineering  
 Science Labs

## The Volt Center and Other Training Facilities

In addition to the New Bern and Havelock locations, Craven Community College has a workforce training facility at the Volt Center near downtown New Bern, as well as a location aboard Marine Corps Air Station Cherry Point, where the office and classrooms are located in the Jerry Marvel Training and Educational Building. For additional information, visit our [Campus Locations](#) webpage.

# Campus Maps and Success Factors

# CRAVEN

COMMUNITY COLLEGE

**Volt Center**  
 205 First St.  
 New Bern, NC 28562  
 (252) 633-0857



★ Information Desk

**Diesel & Heavy Equipment (034)**

Diesel Engines & Systems  
 Forklift

**Heavy Equipment Operations (038)**

**Kitchen (036)**  
 Bartending  
 Brewing  
 Cooking  
 Hospitality

**Law Enforcement Training (033)**

**Makerspace (037)**  
 Welding Lab

**Small Business Center (SBC) (032)**

**SBC Generator (039)**

**Taylor Hall (031)**

Administrative Offices  
 Carpentry  
 Electrical  
 HVAC  
 Manufacturing  
 Masonry  
 Plumbing  
 Small Engine Repair  
 Solar Photovoltaic Technology

# Campus Maps and Success Factors

## Student's Right to Know

Craven Community College complies with federal regulations that require undergraduate completion, or graduation rates, be made available to all credit students. The College is required to make available specific statistical data before students make a financial commitment to the College.

## Student Graduation, Transfer, Dropout and Persistence Rates

### 2020 Cohort of Full-Time, First-Time Degree/Certificate-Seeking Students Cohort Students Who Completed Their Program Within 150% of Normal Time for Completions

Student Cohort	Completers of Programs < 2 years	Completers of Programs 2 < 4 years	Total Completers Within 150%	Graduation Rate
118	7	47	54	46%

### Cohort Students Who Transferred into Other Institutions

Student Cohort	Total Transfer-Out Students	Transfer-Out Rate
118	27	23%

## Critical Success Factors

North Carolina Community Colleges measure their performance in seven areas described below. These standards of performance are set and measured to ensure that programs and services offered by community colleges are of sufficient quality.

### SUMMARY REPORT ON PERFORMANCE MEASURES, JULY 2024 NORTH CAROLINA COMMUNITY COLLEGE SYSTEM AND CRAVEN COMMUNITY COLLEGE

Measure	System Goal	System Baseline	System Mean	Craven CC
Basic Skills Progress	1.216	0.543	0.992	1.294
Credit English Success	1.174	0.727	1.025	1.026
Credit Math Success	1.204	0.665	1.024	1.060
First-Year Progression	1.063	0.899	1.009	0.999
Curriculum Completion Rate	1.094	0.817	1.002	1.002
Licensure Pass Rate Index	1.073	0.811	0.985	1.041
Transfer Performance	1.031	0.917	0.993	0.981

# Programs of Study

Accounting & Finance	Associate in Applied Science	A25800	70
Accounting & Finance	Certificate	C25800	72
Accounting - Small Business Accounting	Certificate	C25800A/HA	73
Accounting & Finance	Diploma	D25800	74
Associate in Arts	Associate in Arts	A10100	76
Associate in Arts in Teacher Preparation	Associate in Arts	A1010T	80
Associate in Engineering	Associate in Engineering	A10500	83
Associate in General Education	Associate in General Education	A10300	86
Associate in General Education Nursing	Associate in General Education	A1030N	89
Associate in Science	Associate in Science	A10400	91
Associate in Science in Teacher Preparation	Associate in Science	A1040T	95
Associate of Fine Arts in Music	Associate of Fine Arts	A10700	99
Associate of Fine Arts in Visual Arts	Associate of Fine Arts	A10600	103
Automotive Systems Technology	Associate in Applied Science	A60160	106
Automotive Systems Technology - Drivetrain	Certificate	C60160A	108
Automotive Systems Technology - Electrical/Electronic	Certificate	C60160BB and C60160HB	109
Automotive Systems Technology - Undercar	Certificate	C61060CC and C61060HC	110
Automotive Systems Technology	Diploma	D60160	111
Aviation Management & Career Pilot Technology - Management	Associate in Applied Science	A60180A	113
Aviation Management & Career Pilot Technology - Pilot	Associate in Applied Science	A60180B	114
Aviation Management & Career Pilot Technology - Intermediate Career Pilot	Certificate	C60180B	115
Aviation Management & Career Pilot Technology - Introduction to Aviation Careers	Certificate	C60180D	116
Aviation Management & Career Pilot Technology - Introduction to Career Pilot	Certificate	C60180A	117
Aviation Management & Career Pilot Technology - Management	Certificate	C60180C	118
Aviation Systems Technology	Associate in Applied Science	A60200	120
Aviation Systems Technology - Airframe	Diploma	D60200A	121
Aviation Systems Technology - Powerplant	Diploma	D60200B	122
Basic Law Enforcement - Training	Certificate	C55120	124
Biotechnology	Associate in Applied Science	A20100	126
Business Administration	Associate in Applied Science	A25120A	128
Business Administration - Customer Service	Certificate	C25120F and C25120HF	129
Business Administration - Entrepreneurship	Certificate	C25120J and C25120HJ	130
Business Administration - Transfer Prep	Certificate	C25120I and C25120HI	131
Business Administration	Diploma	D25120A	132
Computer-Aided Drafting Technology	Associate in Applied Science	A50150	134
Computer-Aided Drafting Technology - Introduction to CAD	Certificate	C50150A or C50150HA	135
Computer-Aided Drafting Technology - Solidworks Specialist	Certificate	C50150B or C50150HB	136
Computer-Aided Drafting Technology	Diploma	D50150	137
Computer-Integrated Machining Technology	Associate in Applied Science	A50210	139
Basic Machinist	Certificate	C50210AA and C50210HA	141
CNC Multi-Axis	Certificate	C50210E	142
CNC Operator	Certificate	C50210C	143
CNC Programmer	Certificate	C50210D	144
Intermediate Machinist	Certificate	C50210B	145
Metrology	Certificate	C50210H	146
Computer-Integrated Machining Technology	Diploma	D50210	147
Cosmetology	Certificate	C55140 & C55140HA	149
Cosmetology	Diploma	D55140	151
Criminal Justice Technology	Associate in Applied Science	A55180	154
Criminal Justice Technology	Certificate	C55180	155
Homeland Security/Terrorism	Certificate	C55180B	156
Transfer/BLET Preparation Certificate	Certificate	C55180EE and C55180HE	157
Criminal Justice Technology	Diploma	D55180	158
Early Childhood Education Birth to Kindergarten Licensure Transfer	Associate in Applied Science	A55220C	160
Early Childhood Education	Certificate	C55220	162
Early Childhood Education – Child Development	Certificate	C55220AA and C55220HA	163
Early Childhood Education – Preschool	Certificate	C55220D	164
Infant/Toddler Care	Certificate	C55220F	165
Intro to Early Childhood Education	Certificate	C55220E and C55220HE	166
Early Childhood Education	Diploma	D55220	167
Early Childhood Education Pre-Birth to Kindergarten	Diploma	D55220A	168
Early Childhood Education Non-Licensure Transfer	Associate in Applied Science	A55220B	170
Early Childhood Education Non-Transfer	Associate in Applied Science	A55220A	173
Electronic Engineering Technology	Associate in Applied Science	A40200	176
Electronic Engineering Technology - Basic Robotics	Certificate	C40200C	178
Electronic Engineering Technology - Communications	Certificate	C40200E and C40200HE	179
Equipment Repair			
Electronic Engineering Technology - Electronic Technician	Certificate	C40200B	180
Electronic Engineering Technology - Intro to Electronics	Certificate	C40200AA and C40200HA	181

# Programs of Study

Electronic Engineering Technology - Home Appliance Repair	Diploma	D40200	182
Esthetics Technology	Certificate	C55230	184
General Occupational Technology	Associate in Applied Science	A55280	185
Health Information Technology	Associate in Applied Science	A45360	187
Health Information Technology	Certificate	C45360A and C45360HA	189
Industrial Systems Technology	Associate in Applied Science	A50240	191
Industrial Systems Technology: Clean Energy Certificate	Certificate	C50240E	192
Industrial Systems Technology: Facilities Maintenance	Certificate	C50240B and C50240HB	193
Industrial Systems Technology: Introduction to Trades	Certificate	C50240D and C50240HD	194
Industrial Systems Technology: Mechanical Maintenance	Certificate	C50240A and C50240HA	195
Industrial Systems Technology: Trade Maintenance	Certificate	C50240C and C50240HC	196
Industrial Systems Technology	Diploma	D50240	197
Information Technology - Cybersecurity & Networking	Associate in Applied Science	A25590H	199
Information Technology - Cybersecurity Coding	Associate in Applied Science	A25590I	201
Information Technology - Technical Support	Associate in Applied Science	A25590F	202
Information Technology - A+ Prep	Certificate	C25590M and C25590HM	203
Information Technology - CISCO CCNA Prep	Certificate	C25590N	204
Information Technology - Coding	Certificate	C25590TU and C25590HU	205
Information Technology - Cybersecurity Coding	Certificate	C25590T and C25590HT	206
Information Technology - Cybersecurity Technician	Certificate	C25590I	207
Information Technology - Entry Level Computer Technician	Certificate	C25590Q and C25590HQ	208
Information Technology - Linux Operating Systems	Certificate	C25590L	209
Information Technology - Productivity Software	Certificate	C25590B and C25590HB	210
Information Technology - Security + Prep	Certificate	C25590J and C25590HJ	211
Information Technology - Cybersecurity & Networking	Diploma	D25590H	212
Information Technology - Cybersecurity Coding	Diploma	D25590I	213
Information Technology - Technical Support	Diploma	D25590F	214
Mechatronics Engineering Technology	Associate in Applied Science	A40350	216
Mechatronics Engineering Tech: Intro to Mechatronics	Certificate	C40350B and C40350HB	217
Mechatronics Engineering Tech: Maintenance Technician	Certificate	C40350A	218
Mechatronics Engineering Technology	Diploma	D40350	219
Medical Assisting	Associate in Applied Science	A45400	221
Medical Assisting: Certificate	Certificate	C45400A and C45400HA	223
Medical Assisting: Medical Scribe	Certificate	C45400	224
Medical Assisting	Diploma	D45400	225
Medical Office Administration - General	Associate in Applied Science	A25310G	226
Medical Office Administration - Medical Billing & Coding	Associate in Applied Science	A25310F	229
Medical Office Administration - Billing and Coding	Certificate	C25310F	231
Medical Office Administration - General	Certificate	C25310G and C25310HG	232
Medical Office Administration - General	Diploma	D25310G	233
NC-DCD Child Care Administrator	Credential		234
NC-DCD Early Childhood Credential	Credential		235
NC-DCD School-Age Child Care Credential	Credential		236
Associate Degree Nursing (Fall & Spring Cohort)	Associate in Applied Science	A45110	239
Associate Degree Nursing - Spring Cohort	Associate in Applied Science	A45110	242
LPN to ADN Transition Program	Associate in Applied Science	A45110	244
Nursing College Transfer Pathway	Certificate	P1032C	246
Physical Therapist Assistant	Associate in Applied Science	A45620	248
Practical Nursing - Day	Diploma	D45660	252
Practical Nursing - Evening	Diploma	D45660	253
Welding Technology	Associate in Applied Science	A50420	255
Welding Technology - Advanced Pipe Level IV	Certificate	C50420G	256
Welding Technology - Entry Level Welding	Certificate	C50420AA and 50420HA	257
Welding Technology - Fabrication Level III	Certificate	C50420F	258
Welding Technology - Intermediate Level II	Certificate	C50420E	259
Welding Technology	Diploma	D50420	260

## Accounting

### Program Description

Craven Community College's Accounting curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting profession. Using the language of business, accountants assemble, analyze, process, and communicate essential information about financial operations.

For degree completion, students are required to successfully complete 69 semester hour credits (SHC) of courses. Students study financial and managerial accounting, taxes, governmental and not-for-profit accounting, bookkeeping, auditing, and payroll accounting. In addition to 10 required courses in accounting principles, theories, and practice, students learn about business law, general business, and economics. Related skills are developed through the study of communications, social sciences and humanities, and computer applications. Students may complete the program online, as well as in traditional face-to-face formats.

Craven Community College's Accounting Program is accredited by the Accreditation Council of Business Schools and Programs.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Analyze, classify and record transactions for profit and non-profit organizations.
- Demonstrate mastery of accounting skills for
  - a. adjusting entries,
  - b. correction of accounting errors,
  - c. payroll,
  - d. inventory,
  - e. depreciation, and
  - f. internal controls and fraud prevention.
- Demonstrate an understanding of federal and state tax law.

### Career Opportunities

The Accounting program prepares students to begin their careers assisting accountants as full-charge bookkeepers, junior accountants, accounting clerks, or office managers. An accounting assistant provides bookkeeping capabilities to a variety of employers through such responsibilities as accounts receivable/payable, payroll, balance sheets, income statements, billing, and bank statement reconciliation. Entry level accounting positions are offered in many types of organizations, including:

- accounting firms
- small businesses
- manufacturing firms
- banks
- hospitals
- school systems
- governmental agencies

With work experience and additional education, an individual may advance in the accounting profession.

# Degrees

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## Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## Accounting & Finance

Program Code

A25800

Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
ACC-120	Principles of Financial Accounting	4
ACC-130	Business Income Taxes	3
BUS-110	Introduction to Business	3
MAT-143	Quantitative Literacy	3

#### Spring Semester - Year One

Course Code	Title	Credits
ACC-121	Principles of Managerial Accounting	4
ACC-131	Federal Income Taxes	3
ACC-140	Payroll Accounting	2
BUS-125	Personal Finance	3
CIS-110	Introduction to Computers	3

#### Summer Semester - Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
ECO-251	Principles of Microeconomics	3
	Humanities/Fine Arts Elective AAS (3 credits)	3

#### Fall Semester - Year Two

Course Code	Title	Credits
ACC-180	Practices in Bookkeeping	3
ACC-215	Ethics in Accounting	3
ACC-220	Intermediate Accounting I	4
ACC-225	Cost Accounting	3
ACC-150	Accounting Software Applications	2
CTS-130	Spreadsheet	3

# Degrees

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## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACC-240	Gov & Not-For-Profit Acct	3
ACC-269	Auditing & Assurance Services	3
BUS-115	Business Law I	3
COM-231	Public Speaking	3
PSY-150	General Psychology	3
	Total Credits	71

# Degrees

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## Accounting & Finance

**Program Code**

C25800

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACC-120	Principles of Financial Accounting	4
ACC-131	Federal Income Taxes	3
ACC-130	Business Income Taxes	3
ACC-140	Payroll Accounting	2
ACC-150	Accounting Software Applications	2
CIS-110	Introduction to Computers	3
	Total Credits	17

# Degrees

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## Accounting - Small Business Accounting

**Program Code**

C25800A/HA

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACC-120	Principles of Financial Accounting	4
ACC-131	Federal Income Taxes	3
ACC-150	Accounting Software Applications	2
BUS-115	Business Law I	3
BUS-139	Entrepreneurship I	3
CIS-110	Introduction to Computers	3
	Total Credits	18

# Degrees

## Accounting & Finance

Program Code

D25800

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
ACC-120	Principles of Financial Accounting	4
	ACC-130 or ACC-150	2-3
BUS-110	Introduction to Business	3
MAT-143	Quantitative Literacy	3

### Spring Semester - Year One

Course Code	Title	Credits
ACC-121	Principles of Managerial Accounting	4
ACC-131	Federal Income Taxes	3
ACC-140	Payroll Accounting	2
CIS-110	Introduction to Computers	3

### Fall Semester - Year Two

Course Code	Title	Credits
	Business Elective (3 credits)	3
ACC-180	Practices in Bookkeeping	3
BUS-115	Business Law I	3
BUS-153	Human Resource Management	3
COM-231	Public Speaking	3
	Total Credits	40-41

## Associate in Arts

### Program Description

At Craven Community College, areas of study under the Associate in Arts (AA) degree span a wide range of academic interests. Typically, these areas include specific studies in the social sciences, humanities, communication, education, the arts, and criminal justice. Students should meet regularly with an advisor to determine the best course of study for their particular area of interest.

For degree completion, students are required to successfully complete 45 semester hour credits (SHC) of General Education courses. These General Education areas include: English, fine arts/humanities, social sciences, natural sciences, and mathematics and represent the General Education Core of the AA.

In accordance with the revised Curriculum Articulation Agreement of 2014, the Associate in Arts degree is composed of 32 hours of Universal General Education Transfer Component (UGETC) courses, 13 hours of additional general education courses and 15 hours of elective credit. Craven Community College has identified literature, history, health/physical education and ACA as required courses within the Associate in Arts degree.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to collect, interpret, and formulate conclusions from data.
- Write and/or speak with clarity, coherence, and persuasiveness.
- Analyze and interpret the role of the fine arts in society and culture.
- Demonstrate how historical, philosophical, cultural, global, and/or socioeconomic factors affect human interactions and behaviors.

### Career Opportunities

The Associate in Arts degree program serves as the foundation for students who will complete their bachelor's degree at a four-year institution. They may then pursue careers in a number of areas, including:

- the social sciences
- the arts
- the humanities
- education and communication
- business administration.

In addition, successful completion of a bachelor's degree can also lead to continued study on the graduate level. For a more complete list of career opportunities, consult the individual Associate in Arts program description in this catalog.

### Transfer Opportunities

Craven Community College has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- four-year institutions in the University of North Carolina System
- private North Carolina four-year institutions.

# Degrees

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To provide for a smooth transfer, students should consult with both an academic advisor and the potential transfer institutions for academic course selection and guidance as soon as possible.

## Contact Information

Associate Dean, Liberal Arts and University Transfer – English, Communication and Humanities  
252-638-2497

Associate Vice President for Instruction  
252-638-3745

Admissions Office  
252-638-7430

## Associate in Arts

Program Code

A10100

Degree Type

Associate in Arts

### Transfer Electives, UGETC, and Options in Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences Requirements

Select from Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences courses listed in the Universal General Education Transfer Component Courses (UGETC). Other Transfer Electives are also listed.

- Three Humanities/Fine Arts courses are required from at least two different disciplines.
- Three Social/Behavioral Sciences courses are required from at least two different disciplines.
- One Mathematics course is required.
- One Natural Science course is required.

To provide for a smooth transfer, students should consult an academic advisor and the potential transfer institution for academic course selection and guidance.

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-122	College Transfer Success	1
ENG-111	Writing and Inquiry	3
	MAT 143 or MAT 152 or MAT 171	3-4
	Social/Behavioral Science UGETC	3
	Humanities/Fine Arts UGETC	3

#### Spring Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
	Natural Sciences UGETC AA and AATP (4 credits)	4
	Social/Behavioral Science UGETC - AE	3
	Humanities/Fine Arts UGETC	3

# Degrees

## Fall Semester - Year Two

Course Code	Title	Credits
	Social/Behavioral Science UGETC	3
	Humanities/Fine Arts UGETC	3
	General Education Requirements	3-4
	General Education Requirements	3-4

## Spring Semester - Year Two

Course Code	Title	Credits
	Transfer Elective (1-3 credits)	1-5
	Transfer Elective (1-3 credits)	1-5
	Transfer Elective (1-3 credits)	1-5
	Transfer Elective (1-4 credits)	1-4

## Humanities/Fine Arts UGETC

Below are the Humanities / Fine Arts options for the Associate in Arts:

Course Code	Title	Credits
ART-111	Art Appreciation	3
ART-114	Art History Survey I	3
ART-115	Art History Survey II	3
DRA-111	Theatre Appreciation	3
ENG-231	American Literature I	3
ENG-232	American Literature II	3
ENG-241	British Literature I	3
ENG-242	British Literature II	3
MUS-110	Music Appreciation	3
MUS-112	Introduction to Jazz	3
PHI-215	Philosophical Issues	3
PHI-240	Introduction to Ethics	3

## Social/Behavioral Science UGETC

Below are the Social/Behavioral Science UGETC options for the Associate in Arts:

Course Code	Title	Credits
ECO-251	Principles of Microeconomics	3
ECO-252	Principles of Macroeconomics	3
HIS-111	World Civilizations I	3
HIS-112	World Civilizations II	3
HIS-131	American History I	3
HIS-132	American History II	3
POL-120	American Government	3
PSY-150	General Psychology	3
SOC-210	Introduction to Sociology	3

# Degrees

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## Natural Sciences UGETC

Select one course, including accompanying laboratory work. Lecture and lab is included in BIO 110, BIO 111, CHM 151, and GEL 111. Register for both lecture and lab with AST 111 and AST 111A, BIO 140 and BIO 140A, and PHY 110 and PHY 110A.

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
AST-111	Descriptive Astronomy	3
AST-111A	Descriptive Astronomy Lab	1
BIO-110	Principles of Biology	4
BIO-111	General Biology I	4
CHM-151	General Chemistry I	4
GEL-111	Geology	4
PHY-110	Conceptual Physics	3
PHY-110A	Conceptual Physics Lab	1
	Total Credits	60-61

## Associate in Arts in Teacher Preparation

### Program Description

At Craven Community College, students enrolled in the Associate in Arts in Teacher Preparation (AATP) degree will take education courses in addition to studies in general education. Students should meet regularly with an advisor to determine the best course of study for their particular area of interest.

For degree completion, students are required to successfully complete 45 semester hour credits (SHC) of General Education courses. These General Education areas include: English, humanities/fine arts, social/behavioral sciences, mathematics, and natural sciences.

In accordance with the revised Curriculum Articulation Agreement of 2014, the Associate in Arts in Teacher Preparation degree is composed of 29 hours of Universal General Education Transfer Component (UGETC) courses, 3 hours of a Required General Education course, 13 hours of additional general education courses, and 15 Other Required Hours, which includes ACA and education courses.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to collect, interpret, and formulate conclusions from data.
- Write and/or speak with clarity, coherence, and persuasiveness.
- Analyze and interpret the role of fine arts in society and culture.
- Demonstrate how historical, philosophical, cultural, global, and/or socioeconomic factors affect human interactions and behaviors.
- Demonstrate foundational knowledge in education.

### Career Opportunities

The Associate in Arts in Teacher Preparation degree program serves as the foundation for students who wish to complete their bachelor's degree in education at a four-year institution. Students may then pursue careers in:

- Elementary education (grades K-6)
- Middle school education in non-STEM subject areas (grades 6-8)
- Secondary education in non-STEM subject areas (grades 9-12)

In addition, successful completion of a bachelor's degree can also lead to continued study on the graduate level.

### Transfer Opportunities

Craven Community College has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- four-year institutions in the University of North Carolina System
- private North Carolina four-year institutions.

To provide for a smooth transfer, students should consult with both an academic advisor and the potential transfer institution for academic course selection and guidance as soon as possible.

# Degrees

## Contact Information

Associate Dean of Arts & Sciences – English, Communication, and Humanities  
252-638-2497

Dean of Arts & Sciences  
252-672-7513

Admissions Office  
252-638-7430

## Associate in Arts in Teacher Preparation

### Program Code

A1010T

### Degree Type

Associate in Arts

### Transfer Electives, UGETC, and Options in Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences Requirements

Select from Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences courses listed in the Universal General Education Transfer Component Courses (UGETC) on page 146. Other Transfer Electives are listed on page 147.

- Three Humanities/Fine Arts courses are required from at least two different disciplines
- Two Social/Behavioral Sciences courses are required from at least two different disciplines
- One Mathematics course required
- One Natural Science course is required

See an advisor to determine the best courses for your program.

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-122	College Transfer Success	1
ENG-111	Writing and Inquiry	3
	Humanities/Fine Arts UGETC	3
	MAT 143 or MAT 152 or MAT 171	3-4
EDU-187	Teaching and Learning for All	4

#### Spring Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
	Natural Sciences UGETC AA and AATP (4 credits)	4
	Social/Behavioral Science UGETC	3
	Humanities/Fine Arts UGETC	3
EDU-216	Foundations of Education	3

# Degrees

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## Fall Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
	Social/Behavioral Science UGETC	3
	Humanities/Fine Arts UGETC	3
EDU-279	Literacy Development and Instruction	4
	General Education Requirements	3-4
	Transfer Elective (1-4 credits)	1-4

## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
SOC-225	Social Diversity	3
EDU-250	Teacher Licensure Preparation	3
	General Education Requirements	3-4
	Transfer Elective (1-4 credits)	1-4
	Transfer Elective (1-4 credits)	1-4
	Total Credits	60-61

## Associate in Engineering

### Program Description

The Associate in Engineering (A.E.) is a progression degree plan which meets 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 duplicate courses. To be eligible to transfer credits under the A.E. to B.S.E. Uniform Articulation Agreement, a student must earn an A.E. degree in a North Carolina Community College with a GPA of at least 2.5 and a grade of C or better in all A.E. courses. Students who follow the progression degree plan are not guaranteed admission to a college of engineering but will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering programs.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

Before initiating study for an A.E. degree, a student must have the prerequisite courses or placement to begin MAT 271, Calculus 1. If this is not the case, the student must speak with an advisor in order to choose the proper preparatory courses.

Calculus I is the lowest level math course that will be accepted by the engineering programs for transfer as a math credit. Students who are not calculus-ready will need to take additional math courses.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to collect, interpret, and formulate conclusions formally from data.
- Write and/or speak with clarity, coherence, and persuasiveness.
- Demonstrate how historical, philosophical, cultural, global and/or socioeconomic factors affect human interactions and behaviors.
- Use the theories of calculus and physics to model the physical world in order to make decisions or solve problems.

### Career Opportunities

- Professional careers in design and analysis across various industries
- Research and development or laboratory opportunities in the private and public sectors
- Positions in technical related fields such as drafting, testing, support and sales
- Excellent background for other fields requiring mathematics/engineering proficiency, including:
  - Teaching or research
  - Engineering
  - Mathematics
  - Physics

### Transfer Opportunities

Craven Community College has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- four-year institutions in the University of North Carolina System
- private North Carolina four-year institutions.

# Degrees

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To provide for a smooth transfer, students should consult with both an academic advisor and the potential transfer institution for academic course selection and guidance.

## Contact Information

Associate Dean, Liberal Arts and University Transfer – Math, Science, and Social Science  
252-638-7331

Associate Vice President for Instruction  
252-672-7513

Admissions Office  
252-638-7430

## Associate in Engineering

Program Code

A10500

Degree Type

Associate in Engineering

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-122	College Transfer Success	1
ENG-111	Writing and Inquiry	3
ECO-251	Principles of Microeconomics	3
MAT-271	Calculus I	4
CHM-151	General Chemistry I	4

#### Spring Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
	Social/Behavioral Science UGETC - AE	3
MAT-272	Calculus II	4
PHY-251	General Physics I	4
EGR-150	Intro to Engineering	2

#### Fall Semester - Year Two

Course Code	Title	Credits
	Humanities - AE	3
MAT-273	Calculus III	4
PHY-252	General Physics II	4
	Other General Education (AE)	3-4

# Degrees

## Spring Semester - Year Two

Course Code	Title	Credits
	Fine Arts & Communication - AE	3
	Other General Education and Pre-Major Elective Courses	3-4
	Other General Education and Pre-Major Elective Courses	3-4
	Other General Education and Pre-Major Elective Courses	3-4
	Other General Education and Pre-Major Elective Courses	3-4

## Social/Behavioral Science UGETC - AE

Below are the Social/Behavioral Science UGETC options for the Associate in Engineering.

Course Code	Title	Credits
HIS-111	World Civilizations I	3
HIS-112	World Civilizations II	3
HIS-131	American History I	3
HIS-132	American History II	3
POL-120	American Government	3
PSY-150	General Psychology	3
SOC-210	Introduction to Sociology	3

## Humanities - AE

Below are the Humanities options for the Associate in Engineering.

Course Code	Title	Credits
ENG-231	American Literature I	3
ENG-232	American Literature II	3
ENG-241	British Literature I	3
ENG-242	British Literature II	3
PHI-215	Philosophical Issues	3
PHI-240	Introduction to Ethics	3
REL-110	World Religions	3

## Fine Arts & Communication - AE

Course Code	Title	Credits
COM-231	Public Speaking	3
ART-111	Art Appreciation	3
ART-114	Art History Survey I	3
ART-115	Art History Survey II	3
MUS-110	Music Appreciation	3
MUS-112	Introduction to Jazz	3

## Other General Education (AE)

Course Code	Title	Credits
BIO-111	General Biology I	4
CHM-152	General Chemistry II	4
COM-231	Public Speaking	3
ECO-251	Principles of Microeconomics	3
GEL-111	Geology	4
HUM-110	Technology and Society	3
PHI-240	Introduction to Ethics	3
	Total Credits	60-61

## Associate in General Education

### Program Description

The Associate in General Education (AGE) is designed to meet the needs of students who are primarily interested in only two years of college. However, the AGE may also be used by students who need to take specific courses to transfer to a specialized major at a four-year college or university. Students wishing to use this degree for transfer are highly encouraged to consult with an advisor to determine the best course of study to accomplish their educational goals.

The AGE is not part of the Comprehensive Articulation Agreement (CAA), which is an agreement between the North Carolina University System (UNC-System) and the North Carolina Community College System that guarantees transfer from a North Carolina community college into a baccalaureate degree program at a UNC-System university.

The AGE allows students to create an individual plan of study for specialized goals, but often does not prepare students to transfer to a university or to enter the work force.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to form logical conclusions through the use of basic mathematical or scientific methods.
- Write and/or speak with clarity, coherence, and persuasiveness.
- Analyze and interpret the role of fine arts in society and culture.
- Demonstrate how historical, philosophical, cultural, global, and/or socioeconomic factors affect human interactions and behaviors.

### Career Opportunities

- Job advancement
- Clerical support
- Entry level office positions
- Local, state, federal government positions

### Transfer Opportunities

While this degree is not designed for transfer, individual courses may transfer to four-year colleges or universities on a course-by-course basis.

### Contact Information

**Associate Dean of Arts & Sciences**  
252-638-2497

**Dean of Arts & Sciences**  
252-672-7513

**Admissions Office**  
252-638-7430

# Degrees

## Associate in General Education

Program Code

A10300

Degree Type

Associate in General Education

### RECOMMENDED COURSE SEQUENCE

#### First Semester

Course Code	Title	Credits
	ACA-111 or ACA-122	1
ENG-111	Writing and Inquiry	3
	Humanities/Fine Arts UGETC	3
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4

#### Second Semester

Course Code	Title	Credits
	ENG-112 or ENG-114	3
	Social/Behavioral Science UGETC	3
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4

#### Third Semester

Course Code	Title	Credits
	*Natural Science or MAT	4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4

#### Fourth Semester

Course Code	Title	Credits
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4
	Course >= 110 Except ACA & WBL	1-4

# Degrees

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## Other Elective and UGETC Requirement Options

*\*Select from Humanities/Fine Arts and Social/Behavioral Sciences courses listed in the Universal General Education Transfer Component Courses (UGETC) on page 146.*

*First level foreign language courses (ex. SPA 111) cannot be used to meet Humanities/Fine Arts Requirement.*

*\*\*Any Math or Natural Sciences course from the Universal General Education Transfer Component Courses (UGETC) on page 146 or the Additional General Education Course list on page 147. MAT 110 or MAT 121 may be used in this category but are not transferable into university programs at most UNC-System schools.*

*Only one ACA course can be used for this degree.*

*No more than 7 semester hour credits may be taken from courses with HEA or PED prefixes.*

*Work-based Learning courses (WBL), previously Cooperative education courses (COE), cannot be used for this degree.*

*See an advisor to determine the best courses for your program.*

*Students wishing to use this degree for transfer are highly encouraged to consult with their advisor to determine the best course of study to accomplish their educational goals.*

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Total Credits

64-65

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## Associate in General Education Nursing

### Program Description

The Associate in General Education (AGE)-Nursing is designed for students who wish to begin their study toward the Associate in Nursing degree and a Baccalaureate degree in Nursing as based on Blocks 1 through 3 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse (RN) to Bachelor of Science in Nursing (BSN) programs and the North Carolina Community College Associate Degree Nursing Programs which was approved by the State Board of Community Colleges and the UNC Board of Governors in February 2015. The AGE-Nursing shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses. Completion of the AGE does not guarantee admission to the Associate Degree Nursing program.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to form logical conclusions through the use of basic mathematical or scientific methods.
- Write and/or speak with clarity, coherence, and persuasiveness.
- Analyze and interpret the role of the fine arts in society and culture.
- Demonstrate how historical, philosophical, cultural, global, and/or socioeconomic factors affect human interactions and behaviors.

### Career Opportunities

- Job advancement
- Clerical support
- Entry level office positions
- Local, state, federal government positions

### Transfer Opportunities

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

### Contact Information

**Director of Nursing Programs**  
252-638-7346

**Health Programs Admissions Office**  
252-639-2025

**Admissions Office**  
252-638-7430

# Degrees

## Associate in General Education Nursing

**Program Code**

A1030N

**Degree Type**

Associate in General Education

**RECOMMENDED COURSE SEQUENCE**

### First Semester

Course Code	Title	Credits
ACA-122	College Transfer Success	1
BIO-168	Anatomy and Physiology I	4
ENG-111	Writing and Inquiry	3
MAT-152	Statistical Methods I	4
PSY-150	General Psychology	3
SOC-210	Introduction to Sociology	3

### Second Semester

Course Code	Title	Credits
BIO-169	Anatomy and Physiology II	4
	ENG-112 or ENG-114	3
PSY-241	Developmental Psychology	3
	Humanities/Fine Arts Gen Ed Courses	3
	SOC-213 or SOC-220 or SOC-225	3

### Third Semester

Course Code	Title	Credits
	ENG-231 or ENG-232	3
	History Requirement (3 credits)	3
BIO-275	Microbiology	4
	CHM-131/131A or CHM-151	4
	Humanities/Fine Arts Gen Ed Courses	3

### Fourth Semester

Course Code	Title	Credits
	MAT-143 or MAT-171	3-4
ECO-251	Principles of Microeconomics	3
	ECO-252 or POL-120	3
	Total Credits	60-61

## Associate in Science

### Program Description

At Craven Community College, areas of study under the Associate in Science (AS) degree span a wide range of academic interests. Typically, these areas include specific studies in mathematics, engineering, and natural and physical sciences. Students should meet regularly with an advisor to determine the best course of study for their particular area of interest.

For degree completion, students are required to successfully complete 45 semester hour credits (SHC) of General Education courses. These General Education areas include: English, fine arts/humanities, social sciences, natural sciences, and mathematics.

In accordance with the revised Curriculum Articulation Agreement of 2014, The Associate in Science is composed of 34 hours of Universal General Education Transfer Component (UGETC) courses, 11 hours of additional general education courses and 15 hours of elective credit.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to collect, interpret, and formulate conclusions from data.
- Write and/or speak with clarity, coherence, and persuasiveness.
- Analyze, and interpret the role of fine arts in society and culture.
- Demonstrate how historical, philosophical, cultural, global, and/or socioeconomic factors affect human interactions and behaviors.

### Career Opportunities

Professional degrees or working in private sector firms in the various fields. Research and development or laboratory opportunities in private and public sector. Positions in education on primary or secondary level. Excellent background for other fields requiring mathematics/science proficiency, including:

- Biology
- Pre-professional training for medicine, dentistry, veterinary science, pharmacy, etc.
- Environmental sciences
- Teaching or research
- Chemistry
- Engineering
- Mathematics
- Physics

### Transfer Opportunities

Craven Community College has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- four-year institutions in the University of North Carolina System
- private North Carolina four-year institutions.

# Degrees

To provide for a smooth transfer, students should consult with both an academic advisor and the potential transfer institution for academic course selection and guidance as soon as possible.

## Contact Information

Associate Dean, Arts & Sciences – Math, Science, and Social Science  
252-638-7331

Dean of Arts & Sciences  
252-672-7513

Admissions Office  
252-638-7430

## Associate in Science

### Program Code

A10400

### Degree Type

Associate in Science

### Transfer Electives, UGETC, and Options in Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences Requirements

Select from Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences courses listed in the Universal General Education Transfer Component Courses (UGETC) on page 146. Other Transfer Electives are listed on page 147.

- Two Humanities/Fine Arts courses are required from at least two different disciplines
- Two Social/Behavioral Sciences courses are required from at least two different disciplines
- Two Mathematics courses are required
- Two Natural Science courses are required

See an advisor to determine the best courses for your program.

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-122	College Transfer Success	1
ENG-111	Writing and Inquiry	3
	Math Requirement AS and ASTP (4 credits)	4
	Social/Behavioral Science UGETC	3
	Natural Sciences UGETC AS and ASTP	4

#### Spring Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
	Math Requirement AS and ASTP (4 credits)	4
	Natural Sciences UGETC AS and ASTP	4
	Social/Behavioral Science UGETC	3
	Humanities/Fine Arts UGETC	3

# Degrees

## Fall Semester - Year Two

Course Code	Title	Credits
	Transfer Elective (1-4 credits)	1-4
	Humanities/Fine Arts UGETC	3
	General Education Requirements	3-4
	General Education Requirements	3-4
	General Education Requirements	3-4

## Spring Semester - Year Two

Course Code	Title	Credits
	General Education Requirements	3-4
	Transfer Elective (1-4 credits)	1-4
	Transfer Elective (1-4 credits)	1-4
	Transfer Elective (1-4 credits)	1-4
	Transfer Elective (1-4 credits)	1-4

## Humanities/Fine Arts UGETC

Below are the Humanities / Fine Arts options for the Associate in Science. Select one course from ART, DRA, MUS, or PHI.

Course Code	Title	Credits
ART-111	Art Appreciation	3
ART-114	Art History Survey I	3
ART-115	Art History Survey II	3
DRA-111	Theatre Appreciation	3
ENG-231	American Literature I	3
ENG-232	American Literature II	3
ENG-241	British Literature I	3
ENG-242	British Literature II	3
MUS-110	Music Appreciation	3
MUS-112	Introduction to Jazz	3
PHI-215	Philosophical Issues	3
PHI-240	Introduction to Ethics	3

## Social/Behavioral Science UGETC

Below are the Social/Behavioral Science UGETC options for the Associate in Science. Select one course from ECO, POL, or PSY.

Course Code	Title	Credits
ECO-251	Principles of Microeconomics	3
ECO-252	Principles of Macroeconomics	3
HIS-111	World Civilizations I	3
HIS-112	World Civilizations II	3
HIS-131	American History I	3
HIS-132	American History II	3
POL-120	American Government	3
PSY-150	General Psychology	3
SOC-210	Introduction to Sociology	3

# Degrees

## Math UGETC Courses for Associate in Science

Course Code	Title	Credits
MAT-171	Precalculus Algebra	4
MAT-172	Precalculus Trigonometry	4
MAT-263	Brief Calculus	4
MAT-271	Calculus I	4
MAT-272	Calculus II	4

## Natural Science UGETC for AS and ASTP

Two Natural Science courses are required for the AS and ASTP. When selecting courses that are offered in a 2-part sequence (BIO 111/112, CHM 151/152, and PHY 251/252), both parts of the sequence are required to meet the Natural Science requirement.

Course Code	Title	Credits
BIO-110	Principles of Biology	4
BIO-111	General Biology I	4
BIO-112	General Biology II	4
CHM-151	General Chemistry I	4
CHM-152	General Chemistry II	4
GEL-111	Geology	4
PHY-110	Conceptual Physics	3
PHY-110A	Conceptual Physics Lab	1
PHY-151	College Physics I	4
PHY-152	College Physics II	4
PHY-251	General Physics I	4
PHY-252	General Physics II	4
	Total Credits	60-61

## Associate in Science in Teacher Preparation

### Program Description

At Craven Community College, students enrolled in the Associate in Science in Teacher Preparation (ASTP) degree will take education courses in addition to specific studies in mathematics, and natural and physical sciences. Students should meet regularly with an advisor to determine the best course of study for their particular area of interest.

For degree completion, students are required to successfully complete 45 semester hour credits (SHC) of General Education courses. These General Education areas include: English, humanities/fine arts, social/behavioral sciences, mathematics and natural sciences.

In accordance with the revised Curriculum Articulation Agreement of 2014, the Associate in Science in Teacher Preparation degree is composed of 31 hours of Universal General Education Transfer Component (UGETC) courses, 3 hours of a Required General Education course, 11 hours of additional general education courses and 15 Other Required Hours, which includes ACA and education courses.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to collect, interpret, and formulate conclusions from data.
- Write and/or speak with clarity, coherence, and persuasiveness.
- Analyze and interpret the role of fine arts in society and culture.
- Demonstrate how historical, philosophical, cultural, global, and/or socioeconomic factors affect human interactions and behaviors.
- Demonstrate foundational knowledge in education.

### Career Opportunities

The Associate in Science in Teacher Preparation degree program serves as the foundation for students who wish to complete their bachelor's degree in education in the STEM-related fields at a four-year institution. Students may then pursue careers in:

- Elementary education (grades K-6)
- Middle school education (grades 6-8)
- Secondary education (grades 9-12)

In addition, successful completion of a bachelor's degree can also lead to continued study on the graduate level.

### Transfer Opportunities

Craven Community College has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- four-year institutions in the University of North Carolina System
- private North Carolina four-year institutions.

To provide for a smooth transfer, students should consult with both an academic advisor and the potential transfer institution for academic course selection and guidance as soon as possible.

# Degrees

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## Contact Information

Associate Dean of Arts & Sciences  
252-638-7331

Dean of Arts & Sciences  
252-672-7513

Admissions Office  
252-638-7430

## Associate in Science in Teacher Preparation

### Program Code

A1040T

### Degree Type

Associate in Science

### Transfer Electives, UGETC, and Options in Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences Requirements

Select from Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences courses listed in the Universal General Education Transfer Component Courses (UGETC) on page 146. Other Transfer Electives are listed on page 147.

- Two Humanities/Fine Arts courses are required from at least two different disciplines
- One Social/Behavioral Sciences course
- Two Mathematics courses are required
- Two Natural Sciences courses are required

See an advisor to determine the best courses for you.

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-122	College Transfer Success	1
ENG-111	Writing and Inquiry	3
	Math Requirement AS and ASTP (4 credits)	4
	Natural Sciences UGETC AS and ASTP	4
EDU-187	Teaching and Learning for All	4

#### Spring Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
	Math Requirement AS and ASTP (4 credits)	4
	Natural Sciences UGETC AS and ASTP	4
	Humanities/Fine Arts UGETC	3
EDU-216	Foundations of Education	3

# Degrees

## Fall Semester - Year Two

Course Code	Title	Credits
	General Education Requirements	3-4
	Social/Behavioral Science UGETC	3
	General Education Requirements	3-4
EDU-279	Literacy Development and Instruction	4

## Spring Semester - Year Two

Course Code	Title	Credits
SOC-225	Social Diversity	3
	Humanities/Fine Arts UGETC	3
	General Education Requirements	3-4
	General Education Requirements	3-4
EDU-250	Teacher Licensure Preparation	3

## Humanities / Fine Arts UGETC

Below are the Humanities / Fine Arts options for the Associate in Science in Teacher Preparation. Select one course from ART, DRA, MUS, or PHI.

Course Code	Title	Credits
ART-111	Art Appreciation	3
ART-114	Art History Survey I	3
ART-115	Art History Survey II	3
DRA-111	Theatre Appreciation	3
ENG-231	American Literature I	3
ENG-232	American Literature II	3
ENG-241	British Literature I	3
ENG-242	British Literature II	3
MUS-110	Music Appreciation	3
MUS-112	Introduction to Jazz	3
PHI-215	Philosophical Issues	3
PHI-240	Introduction to Ethics	3

## Social/Behavioral Science UGETC

Below are the Social/Behavioral Science UGETC options for the Associate in Science in Teacher Preparation.

Course Code	Title	Credits
ECO-251	Principles of Microeconomics	3
ECO-252	Principles of Macroeconomics	3
HIS-111	World Civilizations I	3
HIS-112	World Civilizations II	3
HIS-131	American History I	3
HIS-132	American History II	3
POL-120	American Government	3
PSY-150	General Psychology	3
SOC-210	Introduction to Sociology	3

# Degrees

## Math UGETC Courses for Associate in Science in Teacher Preparation

Course Code	Title	Credits
MAT-171	Precalculus Algebra	4
MAT-172	Precalculus Trigonometry	4
MAT-263	Brief Calculus	4
MAT-271	Calculus I	4
MAT-272	Calculus II	4

## Natural Science UGETC for AS and ASTP

Two Natural Science courses are required for the AS and ASTP. When selecting courses that are offered in a 2-part sequence (BIO 111/112, CHM 151/152, and PHY 251/252), both parts of the sequence are required to meet the Natural Science requirement.

Course Code	Title	Credits
BIO-110	Principles of Biology	4
BIO-111	General Biology I	4
BIO-112	General Biology II	4
CHM-151	General Chemistry I	4
CHM-152	General Chemistry II	4
GEL-111	Geology	4
PHY-110	Conceptual Physics	3
PHY-110	Conceptual Physics	3
PHY-251	General Physics I	4
PHY-252	General Physics II	4
	Total Credits	60-61

## Associate of Fine Arts in Music

### Program Description

The Associate in Fine Arts in Music (AFA) degree is designed to transfer into baccalaureate degree programs for students who wish to complete a Bachelor in Fine Arts (BFA) degree in Music, a Bachelor of Music (BM) degree, or a Bachelor of Arts (BA) degree with a major in Music. The curriculum provides General Education courses required of liberal arts students and music specialization courses required by four-year institutions. The purpose of the AFA degree is to provide the first two years of preparation for those students interested in careers in applied music.

The AFA degree is not part of the Comprehensive Articulation Agreement (CAA) and is not uniformly transferable to all 16 state universities and colleges in the North Carolina University System. The degree focuses on continued training in Music to enhance performance skills of students seeking competitive admission to bachelor's degree programs.

Upon transfer, students will still be required to meet the General Education Core requirements of the receiving college or university as well as foreign language and/or health and physical education requirements of the receiving college or university. The AFA in Music is also appropriate for students who want additional training in music for their present career, without the need to pursue a bachelor's degree.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Articulate and critique different fine art theories.
- Demonstrate the ability to collect, interpret, and formulate conclusions from data.
- Write and/or speak with clarity, coherence, and persuasiveness.
- Demonstrate how historical, philosophical, cultural, global, and/or socioeconomic factors affect human interactions and behaviors.

### Career Opportunities

- Professional performing artist (singer, instrumentalist, etc.)
- Music radio announcer
- Church musician, Musical ministry, Organist
- Musical director
- Musicologist, Music librarian
- Music theorist (music composer, songwriter, arranger)
- Conductor (band director, choir director, opera conductor)
- Audio editor
- Communications (broadcaster, station manager, radio announcer)
- Artistic director
- Talent scout/Agent

### Transfer Opportunities

All courses within the AFA will transfer to UNC-system schools; however, universities without BFA degrees may transfer specialized music courses as electives.

To provide for a smooth transfer, students should consult with both an academic advisor and the potential transfer institution for academic course selection and guidance.

# Degrees

## Contact Information

Associate Dean of Arts & Sciences  
252-638-2497

Dean of Arts & Sciences  
252-672-7513

Admissions Office  
252-638-7430

## Associate of Fine Arts in Music

Program Code

A10700

Degree Type

Associate of Fine Arts

### Transfer Electives, UGETC, and Options in Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences Requirements

Select from Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences courses listed in the Universal General Education Transfer Component Courses (UGETC). Other Transfer Electives are also listed.

- Two Humanities/Fine Arts courses are required from at least two different disciplines.
- Two Social/Behavioral Sciences courses are required from at least two different disciplines.
- One Mathematics course is required
- One Natural Sciences course is required

See an advisor to determine the best courses for your program.

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-122	College Transfer Success	1
ENG-111	Writing and Inquiry	3
	Social/Behavioral Science UGETC	3
MUS-110	Music Appreciation	3
MUS-121	Music Theory I	3
MUS-125	Aural Skills I	1
MUS-151	Class Music I	1

#### Spring Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
	Humanities/Fine Arts UGETC	3
	Math Elective (AFA)	3-4
MUS-122	Music Theory II	3
MUS-126	Aural Skills II	1
MUS-152	Class Music II	1

# Degrees

## Fall Semester - Year Two

Course Code	Title	Credits
	Natural Sciences AFA	4-4
MUS-161	Applied Music I	2
MUS-181	Show Choir I	4
	Social/Behavioral Science UGETC	3

## Spring Semester - Year Two

Course Code	Title	Credits
MUS-182	Show Choir II	4
MUS-162	Applied Music II	2
	Transfer Elective (1-4 credits)	1-4
	Transfer Elective (1-4 credits)	1-4

*\*All AFA-Music majors are required to take Class Music I-Piano (MUS-151P). Vocal students should also take Class Music I-Vocals (MUS-151V).*

## Social/Behavioral Science UGETC

Course Code	Title	Credits
ECO-251	Principles of Microeconomics	3
ECO-252	Principles of Macroeconomics	3
HIS-111	World Civilizations I	3
HIS-112	World Civilizations II	3
HIS-131	American History I	3
HIS-132	American History II	3
POL-120	American Government	3
PSY-150	General Psychology	3
SOC-210	Introduction to Sociology	3

## Humanities/Fine Arts UGETC

Course Code	Title	Credits
ART-111	Art Appreciation	3
ART-114	Art History Survey I	3
ART-115	Art History Survey II	3
COM-120	Intro to Interpersonal Communication	3
COM-231	Public Speaking	3
DRA-111	Theatre Appreciation	3
ENG-231	American Literature I	3
ENG-232	American Literature II	3
ENG-241	British Literature I	3
ENG-242	British Literature II	3
MUS-110	Music Appreciation	3
MUS-112	Introduction to Jazz	3
PHI-215	Philosophical Issues	3
PHI-240	Introduction to Ethics	3

# Degrees

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## Natural Sciences AFA

Select one course, including accompanying laboratory work. Lecture and lab is included in BIO 110, BIO 111, CHM 151, and GEL 111. Register for both lecture and lab with AST 111/AST 111A and PHY 110/PHY 110A.

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
AST-111	Descriptive Astronomy	3
AST-111A	Descriptive Astronomy Lab	1
BIO-110	Principles of Biology	4
BIO-111	General Biology I	4
CHM-151	General Chemistry I	4
GEL-111	Geology	4
PHY-110	Conceptual Physics	3
PHY-110A	Conceptual Physics Lab	1
	Total Credits	60-61

## Associate of Fine Arts in Visual Arts

### Program Description

The Associate in Fine Arts in Visual Arts (AFA) degree is designed to transfer into baccalaureate degree programs for students who wish to complete a Bachelor in Fine Arts (BFA) degree in Art or a Bachelor of Arts (BA) degree with a major in Art. The curriculum provides General Education courses required of liberal arts students and art specialization courses required by four-year institutions. The purpose of the AFA degree is to provide the first two years of preparation for those students interested in careers in applied art.

The AFA degree is not part of the Comprehensive Articulation Agreement (CAA) and is not uniformly transferable to all 16 state universities and colleges in the North Carolina University System. The degree focuses on continued training in Art to enhance the portfolio of students seeking competitive admission to bachelor's degree programs.

Upon transfer, students will still be required to meet the General Education Core requirements of the receiving college or university as well as foreign language and/or health and physical education requirements of the receiving college or university. The AFA is also appropriate for students who want additional training in art for their present career, without the need to pursue a bachelor's degree.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Articulate and critique different fine art theories.
- Demonstrate the ability to collect, interpret, and formulate conclusions from data.
- Write and/or speak with clarity, coherence, and persuasiveness.
- Demonstrate how historical, philosophical, cultural, global, and/or socioeconomic factors affect human interactions and behaviors.

### Career Opportunities

- Graphic artist
- Digital artist/Photographer
- Sculptor (wood, metal, stone, etc.)
- Art restoration
- Fashion
- Jewelry
- Interior designer
- Animator
- Painter
- Ceramics artist
- Art historian/Curator
- Cartoonist
- Educator
- Artistic director
- Talent scout/Agent
- Critic (newspaper, online blogging, etc.)
- Commercial/newspaper photographer
- Marketing
- Product/industrial design
- Illustrator

# Degrees

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## Transfer Opportunities

All courses within the AFA will transfer to UNC-system schools; however, universities without BFA degrees may transfer specialized art courses as electives.

To provide for a smooth transfer, students should consult with both an academic advisor and the potential transfer institution for academic course selection and guidance.

## Contact Information

**Associate Dean of Arts & Sciences**  
252-638-2497

**Dean of Arts & Sciences**  
252-672-7513

**Admissions Office**  
252-638-7430

## Associate of Fine Arts in Visual Arts

### Program Code

A10600

### Degree Type

Associate of Fine Arts

### Transfer Electives, UGETC, and Options in Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences Requirements

Select from Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences courses listed in the Universal General Education Transfer Component Courses (UGETC) on page 146. Other Transfer Electives are listed on page 147.

- Two Humanities/Fine Arts courses are required from at least two different disciplines.
- Two Social/Behavioral Sciences courses are required from at least two different disciplines.
- One Mathematics course is required
- One Natural Sciences course is required

Students planning to transfer to bachelor-level programs should select courses in their third and fourth semesters from AFA Level I courses and take their AFA Level II courses at their senior institution. Students not planning on transferring may opt to take AFA Level II courses in place of AFA Level I courses.

See an advisor to determine the best courses for your program.

### RECOMMENDED COURSE SEQUENCE

### Fall Semester - Year One

Course Code	Title	Credits
ACA-122	College Transfer Success	1
ENG-111	Writing and Inquiry	3
	Social/Behavioral Science UGETC	3
ART-111	Art Appreciation	3
ART-114	Art History Survey I	3
ART-121	Two-Dimensional Design	3

# Degrees

## Spring Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
	Math Elective (AFA)	3-4
ART-115	Art History Survey II	3
ART-122	Three-Dimensional Design	3
ART-131	Drawing I	3

## Fall Semester - Year Two

Course Code	Title	Credits
	Humanities/Fine Arts UGETC	3
	Natural Sciences AFA	4-4
	AFA-Level 1 Art Course	3
	Transfer Elective (1-4 credits)	1-4

## Spring Semester - Year Two

Course Code	Title	Credits
	AFA-Level 1 Art Course	3
	AFA-Level 1 Art Course	3
	Transfer Elective (1-4 credits)	1-4
	Transfer Elective (1-4 credits)	1-4
	Total Credits	60-61

## Automotive Systems Technology

### Program Description

The Automotive Systems Technology curriculum prepares students for employment as automotive service technicians. The program introduces automotive careers and increases student awareness of the challenges associated with this fast-paced and ever-changing field.

Classroom and lab experiences integrate technical and academic coursework. Emphasis is placed on automotive technology theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmissions, transaxles, engine repair, climate control, and manual drivetrains.

Upon completion of this curriculum, students should be prepared to take the ASE exam and be ready for full-time employment in dealerships and repair facilities throughout the automotive service industry. This curriculum complies with the standard approved by the State Board of Community Colleges.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Follow recognized automotive industry standards to demonstrate proficiency in troubleshooting and repairing automotive transmissions, drivetrains, transaxles, and axles.
- Demonstrate the use of automotive industry standards for engine repair and performance.
- Demonstrate an understanding of transportation technologies, to include climate control, electrical and electronic systems, and emerging technologies.
- Diagnose and repair suspension/steering and brakes systems.

### Career Opportunities

Upon completing the program; students may be hired by:

- automobile dealership
- automotive repair and maintenance facilities
- automotive parts, accessories, and tire facilities
- federal government
- local government

### Transfer Opportunities

While the AAS is a degree leading to immediate job placement upon graduation, Craven Community College has a special relationship for transfer to a BS degree in Industrial Technology with East Carolina University.

### Contact Information

**Associate Dean of Career Programs**  
252-638-7372

**Dean of Career Programs**  
252-638-4550

# Degrees

Admissions Office  
252-638-7430

## Automotive Systems Technology

### Program Code

A60160

### Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
AUT-151	Brake Systems	3
AUT-151A	Brakes Systems Lab	1
AUT-213	Automotive Servicing 2	2
TRN-110	Introduction to Transport Technology	2
TRN-120	Basic Transportation Electricity	5

#### Spring Semester - Year One

Course Code	Title	Credits
AUT-141	Suspension & Steering Systems	3
AUT-141A	Suspension & Steering Lab	1
AUT-181	Engine Performance 1	3
AUT-181A	Engine Performance 1 Lab	1
ENG-111	Writing and Inquiry	3
TRN-140	Transportation Climate Control	2
TRN-140A	Transportation Climate Control Lab	2

#### Summer Semester - Year One

Course Code	Title	Credits
ENG-114	Professional Research & Reporting	3
MAT-110	Mathematical Measurement and Literacy	3
	Humanities/Fine Arts Elective AAS (3 credits)	3

#### Fall Semester - Year Two

Course Code	Title	Credits
AUT-116	Engine Repair	3
AUT-116A	Engine Repair Lab	1
AUT-163	Advanced Automotive Electricity	3
AUT-163A	Advanced Automotive Electricity Lab	1
AUT-183	Engine Performance 2	4
CIS-113	Computer Basics	1

# Degrees

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## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
AUT-221	Automatic Transmissions/Transaxles	3
AUT-221A	Automatic Transmissions/Transaxles Lab	1
AUT-231	Manual Transmissions/Transaxles/Drive, Trains	3
AUT-231A	Manual Transmissions/Transaxles/Drive, Trains Lab	1
ATT-140	Emerging Transportation Technology	3
ECO-251	Principles of Microeconomics	3
	Total Credits	65

# Degrees

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## Automotive Systems Technology - Drivetrain

**Program Code**

C60160A

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
AUT-116	Engine Repair	3
AUT-116A	Engine Repair Lab	1
AUT-221	Automatic Transmissions/Transaxles	3
AUT-221A	Automatic Transmissions/Transaxles Lab	1
AUT-231	Manual Transmissions/Transaxles/Drive, Trains	3
AUT-231A	Manual Transmissions/Transaxles/Drive, Trains Lab	1
TRN-110	Introduction to Transport Technology	2
	Total Credits	14

# Degrees

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## Automotive Systems Technology - Electrical/Electronic

**Program Code**

C60160BB and C60160HB

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
AUT-181	Engine Performance 1	3
AUT-181A	Engine Performance 1 Lab	1
TRN-110	Introduction to Transport Technology	2
TRN-120	Basic Transportation Electricity	5
TRN-140	Transportation Climate Control	2
TRN-140A	Transportation Climate Control Lab	2
	Total Credits	15

# Degrees

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## Automotive Systems Technology - Undercar

**Program Code**

C61060CC and C61060HC

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
AUT-141	Suspension & Steering Systems	3
AUT-141A	Suspension & Steering Lab	1
AUT-151	Brake Systems	3
AUT-151A	Brakes Systems Lab	1
AUT-181	Engine Performance 1	3
AUT-181A	Engine Performance 1 Lab	1
TRN-110	Introduction to Transport Technology	2
TRN-140	Transportation Climate Control	2
TRN-140A	Transportation Climate Control Lab	2
	<b>Total Credits</b>	<b>18</b>

# Degrees

## Automotive Systems Technology

Program Code

D60160

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
AUT-151	Brake Systems	3
AUT-151A	Brakes Systems Lab	1
AUT-213	Automotive Servicing 2	2
TRN-110	Introduction to Transport Technology	2
TRN-120	Basic Transportation Electricity	5

#### Spring Semester - Year One

Course Code	Title	Credits
AUT-141	Suspension & Steering Systems	3
AUT-141A	Suspension & Steering Lab	1
AUT-181	Engine Performance 1	3
AUT-181A	Engine Performance 1 Lab	1
TRN-140	Transportation Climate Control	2
TRN-140A	Transportation Climate Control Lab	2

#### Fall Semester - Year Two

Course Code	Title	Credits
AUT-183	Engine Performance 2	4
ENG-111	Writing and Inquiry	3
MAT-110	Mathematical Measurement and Literacy	3
	Total Credits	36

## Aviation Management & Career Pilot Technology

### Program Description

The Aviation Management and Career Pilot Technology curriculum prepares individuals for a variety of aviation and aviation-related careers including the commercial airlines, general aviation, the aerospace industries, military, state, and federal aviation organizations.

Course work includes fundamentals of flight, aerodynamics, aircraft performance, meteorology, navigation, federal regulations, and aviation management. Course options include simulator training and management training.

Graduates will hold a Commercial Pilot certificate with an Instrument Rating or specialize in aviation management. Graduates may find employment as commercial, corporate, and military pilots, fixed-base operators, airport managers, flight instructors, and flight dispatchers.

### Admission Criteria

Admission to this program requires that students be 17 years of age with a private pilot's license. Students interested in pursuing the Career Pilot track will obtain their FAA flight certificates from an FAA-approved flight school. Certificates should then be presented to the College for evaluation and credit.

### Program Learning Outcomes

Upon successful completion of the Career Pilot Option, the graduate should be able to:

- Pilot an aircraft
- Communicate effectively
- Employ electronic resources to research and analyze data
- Operate within the ethical, legal, and regulatory standards of the industry
- Use critical thinking skills to solve aviation problems
- Relate effectively to aviation customers
- Employ scientific and aerodynamic principles to safely and efficiently operate an aircraft

Upon successful completion of the Aviation Management Option, the graduate should be able to:

- Orchestrate efficient flight and ground operations
- Demonstrate an understanding of business and marketing skills required for success in the aviation industry
- Communicate effectively
- Employ electronic resources to research and analyze data
- Operate within the legal, ethical, and regulatory standards of the aviation industry
- Use critical thinking skills to solve aviation problems
- Evaluate financial information to make business decisions
- Demonstrate how to relate well with various aviation customers in the execution of business enterprise

### Transfer Opportunities

While the AAS is a degree leading to possible job placement upon graduation, Craven Community College students may be eligible for transfer to a BS Degree in Aviation Management with Southern Illinois University.

### Contact Information

Dean of Havelock Campus  
252-444-0739

# Degrees

Admissions Office  
252-638-7430 – New Bern  
252-444-6012 – Havelock

## Aviation Management & Career Pilot Technology - Management

Program Code  
A60180A  
Degree Type  
Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
ENG-111	Writing and Inquiry	3
	Aviation Management Core	2-3
	Aviation Management Core	2-3
	Aviation Management Elective	1-4
	Aviation Management Elective	1-4

#### Spring Semester - Year One

Course Code	Title	Credits
	MAT - Aviation	3
	COM/ENG	3
	Aviation Management Core	2-3
	Aviation Management Core	2-3
	Aviation Management Core	2-3
	Aviation Management Elective	1-4
	Aviation Management Elective	1-4

#### Fall Semester - Year Two

Course Code	Title	Credits
	HUM - Aviation	3
	Aviation Management Core	2-3
	Aviation Management Core	2-3
	Aviation Management Elective	1-4
	Aviation Management Elective	1-4

#### Spring Semester - Year Two

Course Code	Title	Credits
	SOC/Behavioral Science - Aviation	3
	Aviation Management Core	2-3
	Aviation Management Core	2-3
	Aviation Management Elective	1-4
	Aviation Management Elective	1-4
	Total Credits	65

# Degrees

## Aviation Management & Career Pilot Technology - Pilot

**Program Code**

A60180B

**Degree Type**

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
ENG-111	Writing and Inquiry	3
	Pilot (Manned) Core	2-3
	Pilot (Manned) Core	2-3
	Pilot (Manned) Elective	1-4
	Pilot (Manned) Elective	1-4

#### Spring Semester - Year One

Course Code	Title	Credits
	MAT - Aviation	3
	COM/ENG	3
	Pilot (Manned) Core	2-3
	Pilot (Manned) Core	2-3
	Pilot (Manned) Core	2-3
	Pilot (Manned) Elective	1-4
	Pilot (Manned) Elective	1-4

#### Fall Semester - Year Two

Course Code	Title	Credits
	HUM - Aviation	3
	Pilot (Manned) Core	2-3
	Pilot (Manned) Core	2-3
	Pilot (Manned) Elective	1-4
	Pilot (Manned) Elective	1-4

#### Spring Semester - Year Two

Course Code	Title	Credits
	SOC/Behavioral Science - Aviation	3
	Pilot (Manned) Core	2-3
	Pilot (Manned) Core	2-3
	Pilot (Manned) Elective	1-4
	Pilot (Manned) Elective	1-4
	Total Credits	65

# Degrees

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## Aviation Management & Career Pilot Technology - Intermediate Career Pilot

Program Code

C60180B

Degree Type

Certificate

### Required Courses

Course Code	Title	Credits
AER-151	Flight-Private Pilot	1
AER-160	Instrument Flight Theory	3
AER-161	Flight-Instrument Pilot	2
AER-170	Commercial Flight Theory	3
AER-171	Flight-Commercial Pilot	3
	Total Credits	12

# Degrees

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## Aviation Management & Career Pilot Technology - Introduction to Aviation Careers

Program Code

C60180D

Degree Type

Certificate

### Required Courses

Course Code	Title	Credits
AER-216	Engines & Systems	3
AER-114	Aviation Management	3
AER-150	Private Pilot Flight Theory	3
UAS-110	Intro to UAS Operations	3
	Total Credits	12

# Degrees

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## Aviation Management & Career Pilot Technology - Introduction to Career Pilot

Program Code

C60180A

Degree Type

Certificate

### Required Courses

Course Code	Title	Credits
AER-150	Private Pilot Flight Theory	3
AER-215	Flight Safety	3
AER-110	Air Navigation	3
AER-111	Aviation Meteorology	3
	Total Credits	12

# Degrees

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## Aviation Management & Career Pilot Technology - Management

Program Code

C60180C

Degree Type

Certificate

### Required Courses

Course Code	Title	Credits
AER-114	Aviation Management	3
BUS-110	Introduction to Business	3
AER-215	Flight Safety	3
BUS-137	Principles of Management	3
	Total Credits	12

## Aviation Systems Technology

### Program Description

The Aviation Systems Technology program provides individuals with the knowledge and skills to qualify for an aircraft mechanic's certificate with airframe and/or powerplant ratings. The curriculum is approved by the Federal Aviation Administration (FAA) under 14 CFR Part 147, which governs aviation maintenance schools.

Coursework includes aviation mathematics, FAA regulations, basic electricity, and aircraft drawings; aircraft structures, systems and components; aircraft engines theory, systems and components; and aircraft inspections. The program requires 91 SHC for degree completion and takes two full years (fall, spring and summer). Students receive hands-on training with a number of simulators and actual aircraft.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Inspect airframe and powerplant components, systems and structures as allowed by FAA authority
- Repair airframe and powerplant components, systems and structures within the prescribed limits as allowed by FAA authority
- Demonstrate proper documentation of maintenance, servicing, and repair records as required by FAA standards and authority

### Career Opportunities

Upon graduation, students may enter the workforce as mechanics with:

- air carriers
- aircraft manufacturers
- repair stations
- fixed base operators
- flight schools
- government aviation operations

### Transfer Opportunities

While the AAS is a degree leading to possible job placement upon graduation, Craven Community College has a special relationship for transfer to a BS degree in Industrial Technology with East Carolina University and a BS Degree in Aviation Management with Southern Illinois University.

### Contact Information

**Director - Aviation Systems Technology**  
252-447-5471

**Dean of Havelock Campus**  
252-444-0739

**Admissions Office**  
252-638-7430 – New Bern  
252-444-6012 – Havelock

# Degrees

## Aviation Systems Technology

### Program Code

A60200

### Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
AVI-110	Aviation Maintenance-Gen.	15
CIS-113	Computer Basics	1

#### Spring Semester - Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
AVI-120	Airframe Maintenance I	12

#### Summer Semester - Year One

Course Code	Title	Credits
AVI-130	Airframe Maintenance II	9

#### Fall Semester - Year Two

Course Code	Title	Credits
AVI-230	Airframe Maintenance III	7
AVI-240	Powerplant Maintenance I	6
	English 2 requirement	3
	SOC/Behavioral Science - AST	3

#### Spring Semester - Year Two

Course Code	Title	Credits
AVI-250	Powerplant Maintenance II	15
	MAT - Aviation	3

#### Summer Semester - Year Two

Course Code	Title	Credits
AVI-260	Powerplant Maintenance III	9
	HUM - AST	3

\*WBL 112 or WBL 113 may be substituted for CIS 113

	Total Credits	90
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# Degrees

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## Aviation Systems Technology - Airframe

**Program Code**

D60200A

**Degree Type**

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
AVI-110	Aviation Maintenance-Gen.	15

#### Spring Semester - Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
AVI-120	Airframe Maintenance I	12

#### Summer Semester - Year One

Course Code	Title	Credits
AVI-130	Airframe Maintenance II	9

#### Fall Semester - Year Two

Course Code	Title	Credits
	HUM - AST	3
AVI-230	Airframe Maintenance III	7
	Total Credits	50

# Degrees

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## Aviation Systems Technology - Powerplant

**Program Code**

D60200B

**Degree Type**

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
AVI-110	Aviation Maintenance-Gen.	15

#### Spring Semester - Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
AVI-250	Powerplant Maintenance II	15

#### Summer Semester - Year One

Course Code	Title	Credits
AVI-260	Powerplant Maintenance III	9

#### Fall Semester - Year Two

Course Code	Title	Credits
	HUM - AST	3
AVI-240	Powerplant Maintenance I	6
	Total Credits	52

## Basic Law Enforcement Training

### Program Description

The certificate level program in Basic Law Enforcement Training (BLET) is designed to give students essential skills required for entry-level employment as law enforcement officers.

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

The 20 SHC program is available through day and night academies. The day academy takes one semester for students to complete, and the night academy takes a few weeks more. Both academies involve Saturday and evening classes. All schedules are subject to change.

### Admission Criteria

A candidate for BLET admission must meet these Commission Standards and supply appropriate paperwork to the School Director prior to the first day of class:

- BLET Interview conducted by the School Director prior to registration.
- Citizen of the United States (copy of birth certificate or citizenship paperwork)
- 20 years of age (19 if 20 before course completion and with prior Commission approval)
- Possess a minimum 10th grade reading level (using approved test)
- High School Diploma or GED (Diplomas earned through correspondence enrollment are not recognized towards educational requirements.)
- Valid Driver's License (copy)
- Documentation of military background (if applicable)
- Criminal/arrest history (Certified criminal record check for local and state records for the time period since the trainee has become an adult and from all locations where the trainee has resided since becoming an adult, in both married and maiden names (required). An Administrative Office of the Courts criminal record check or a comparable out-of-state criminal record check will satisfy this requirement.)
- Medical Examination (Medical examination report, properly completed by a physician licensed to practice medicine in North Carolina, a physician's assistant or a nurse practitioner, to determine the individual's fitness to perform the essential job functions of a criminal justice officer.)

Based on the guidelines of the North Carolina Department of Justice, Criminal Justice Standards Division, applicants may be denied entry into the BLET Program.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate knowledge of North Carolina criminal and constitutional law and civil process appropriate to an entry-level law enforcement officer
- Display the physical ability necessary to perform the duties of an entry-level law enforcement officer
- Demonstrate the mental capacity to perform the duties of an entry-level law enforcement officer

### Career Opportunities

After successfully completing Basic Law Enforcement Training, graduates are prepared for employment in:

- state law enforcement
- municipal police departments
- county sheriff's offices
- company police

# Degrees

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## Additional Educational Opportunities

Upon successful completion of CJC 110 at Craven CC, a student enrolling in the

Associate in Applied Science Degree program in Criminal Justice Technology at Craven CC will be given credit for CJC 120, CJC 131, CJC 132, CJC 221, and CJC 231. Students should contact Student Services for details.

### Contact Information

**Coordinator of BLET Program**  
252-638-7361

**Admissions Office**  
252-638-7430

## Basic Law Enforcement - Training

**Program Code**  
C55120

**Degree Type**  
Certificate

### Required Courses

### Fall or Spring Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
LET-110	Basic Law Enforcement BLET	37
	Total Credits	37

## Biotechnology

### In Association with Pitt Community College

#### Cooperative Agreement

Craven Community College has established a collaborative agreement with Pitt Community College that allows students to take a majority of their courses at Craven and the remaining courses at Pitt Community College. Pitt Community College awards the Associate in Applied Science Degree in Biotechnology after the successful completion of the required coursework.

#### Program Description

The Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demand for skilled laboratory technicians in various fields of biological and chemical technology.

Coursework 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, or quality control/quality assurance technician.

#### Career Opportunities

Upon completing the program; students may be hired by:

- automobile dealership
- automotive repair and maintenance facilities
- automotive parts, accessories, and tire facilities
- federal government
- local government

Graduates may find employment in various areas of industry and government, including:

- research and development
- manufacturing
- pharmaceuticals
- forensic laboratories
- sales
- customer service.

#### Contact Information

**Associate Dean, Liberal Arts and University Transfer – Math, Science, and Social Science**  
252-672-7513

**Associate Vice President for Instruction**  
252-638-3745

**Admissions Office**  
252-638-7430

# Degrees

## Biotechnology

**Program Code**

A20100

**Degree Type**

Associate in Applied Science

Degree awarded by: (Pitt Community College)

**RECOMMENDED COURSE SEQUENCE**

### Fall Semester – Year One (Craven CC) Credits

Course Code	Title	Credits
ACA-122	College Transfer Success	1
BIO-111	General Biology I	4
	CHM-131/131A or CHM-151	4
ENG-111	Writing and Inquiry	3
	MAT-143 or MAT-171	3-4

### Spring Semester – Year One (Craven CC) Credits

Course Code	Title	Credits
BIO-112	General Biology II	4
BIO-275	Microbiology	4
CHM-132	Organic and Biochemistry	4
CIS-110	Introduction to Computers	3

### Summer Semester – Year One (Craven CC) Credits

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
	HUM-160 or Humanities/Fine Arts	3
	Social/Behavioral Sciences List 1 AAS	3

### Year Two (Pitt CC) Credits

BTC 181	Basic Lab Techniques	4
BTC 250	Principles of Genetics	3
BTC 281	Bioprocess Techniques	3
BTC 285	Cell Culture	5
BTC 272	Industrial Biology, or	
BTC 286	Immunological Techniques, or	
PHY 125	Health Sciences Physics, or	
PHY 151*	College Physics I (choose two)	8
BTC 288	Biotech Lab Experience, or	
WBL 112*	Work-Based Learning I	2

\*PHY 151 and WBL 112 may be taken at Craven Community College.

\* Select a Social/Behavioral Sciences Elective from the General Education Electives listed on page 95. See an advisor to determine the best Social/Behavioral course for your program.

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Total Credits

65-66

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## Business Administration

### Program Description

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

Coursework in the 67 SHC program includes business concepts such as accounting, business law, economics, management, and marketing. The application of the core concepts is further developed through the study of computer applications, communication, and team building. Students have an opportunity to strengthen interpersonal and conceptual skills such as motivation, performance appraisal, decision making and problem solving. Students may complete the program online, as well as in traditional face-to-face formats.

Through these skills, students will have a sound business education base for lifelong learning. The Business Administration curriculum prepares graduates to begin their careers as management trainees and first line supervisors as well as for higher level management positions in either profit or non-profit organizations.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of the Business Administration programs will be able to:

- Demonstrate a fundamental understanding of the American free enterprise system
- Recognize and employ strategic management for a business operation
- Utilize marketing and/or financial management principles to support an organization
- (For A25120A) Work within a team to develop a plan to integrate all of a firm's resources to achieve business goals
- (For A25120B) Create a plan of quality and productivity for a process.

### Career Opportunities

Graduates may find employment in various areas of industry and business, including:

- supervisor
- management trainee
- business owner/entrepreneur
- financial insurance planning and sales
- human resource specialist

### Contact Information

**Associate Dean of Career Programs**  
252-638-7372

**Dean of Career Programs**  
252-638-4550

**Admissions Office**  
252-638-7430

# Degrees

## Business Administration

**Program Code**

A25120A

**Degree Type**

Associate in Applied Science

**RECOMMENDED COURSE SEQUENCE**

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
ACC-120	Principles of Financial Accounting	4
BUS-110	Introduction to Business	3
CIS-110	Introduction to Computers	3
ENG-111	Writing and Inquiry	3

### Spring Semester - Year One

Course Code	Title	Credits
ACC-121	Principles of Managerial Accounting	4
BUS-137	Principles of Management	3
BUS-240	Business Ethics	3
MAT-143	Quantitative Literacy	3
MKT-232	Social Media Marketing	4

### Summer Semester - Year One

Course Code	Title	Credits
COM-231	Public Speaking	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
PSY-150	General Psychology	3

### Fall Semester - Year Two

Course Code	Title	Credits
BUS-115	Business Law I	3
ECO-251	Principles of Microeconomics	3
MKT-120	Principles of Marketing	3
MKT-223	Customer Service	3

### Spring Semester - Year Two

Course Code	Title	Credits
BUS-139	Entrepreneurship I	3
BUS-153	Human Resource Management	3
BUS-239	Business Applications Seminar	2
CTS-130	Spreadsheet	3
BUS-225	Business Finance	3
	Total Credits	66

# Degrees

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## Business Administration - Customer Service

**Program Code**

C25120F and C25120HF

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BUS-110	Introduction to Business	3
BUS-115	Business Law I	3
BUS-137	Principles of Management	3
CIS-110	Introduction to Computers	3
MKT-120	Principles of Marketing	3
MKT-223	Customer Service	3
	Total Credits	18

# Degrees

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## Business Administration - Entrepreneurship

**Program Code**

C25120J and C25120HJ

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACC-120	Principles of Financial Accounting	4
BUS-110	Introduction to Business	3
BUS-139	Entrepreneurship I	3
MKT-120	Principles of Marketing	3
	Total Credits	13

# Degrees

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## Business Administration - Transfer Prep

**Program Code**

C25120I and C25120HI

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACC-120	Principles of Financial Accounting	4
ACC-121	Principles of Managerial Accounting	4
BUS-115	Business Law I	3
BUS-137	Principles of Management	3
CIS-110	Introduction to Computers	3
	Total Credits	17

# Degrees

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## Business Administration

Program Code

D25120A

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
ACC-120	Principles of Financial Accounting	4
BUS-110	Introduction to Business	3
CIS-110	Introduction to Computers	3
ENG-111	Writing and Inquiry	3

#### Spring Semester - Year One

Course Code	Title	Credits
BUS-137	Principles of Management	3
BUS-153	Human Resource Management	3
BUS-240	Business Ethics	3
MAT-143	Quantitative Literacy	3

#### Fall Semester - Year Two

Course Code	Title	Credits
BUS-115	Business Law I	3
ECO-251	Principles of Microeconomics	3
MKT-120	Principles of Marketing	3
MKT-223	Customer Service	3
BUS-125	Personal Finance	3
	Total Credits	41

## Computer-Aided Drafting Technology

### Program Description

Computer-Aided Drafting Technology is a course of study designed to prepare students to apply technical skills and advanced computer software and hardware knowledge to the development of plans and related documentation. The instruction will also ensure students are provided the necessary background to manage the hardware and software components of a CAD system.

Coursework includes instruction in mechanical drafting, computer-assisted drafting and design (CADD), and creating and managing two and three-dimensional models.

Graduates should qualify for CAD jobs in architectural and engineering consulting firms and industrial design businesses locally, regionally, and globally.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Apply technical skills and advanced computer software and hardware to develop plans and related documentation.
- Manage the hardware and software of a CAD system.
- Illustrate a clear understanding of mechanical drafting, computer-assisted drafting and design (CADD), creating and managing two and three-dimensional models.
- Read/interpret mechanical drawings and apply communicated information to fabricators.

### Career Opportunities

Graduates should qualify for employment in:

- drafting and design businesses
- architectural firms
- advanced manufacturing plants
- aviation/engineering facilities
- construction projects

### Transfer Opportunities

While the AAS is a degree leading to immediate job placement upon graduation, Craven Community College has a special relationship for transfer to a BS degree in Industrial Technology with East Carolina University.

### Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

# Degrees

## Computer-Aided Drafting Technology

### Program Code

A50150

### Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
BPR-111	Print Reading	2
DFT-111	Technical Drafting I	2
DFT-151	CAD I	3
ENG-111	Writing and Inquiry	3
ISC-112	Industrial Safety	2
ARC-114	Architectural CAD	2
ARC-114A	Architectural CAD Lab	1

#### Spring Semester - Year One

Course Code	Title	Credits
BPR-121	Blueprint Reading-Mechanical	2
CIS-110	Introduction to Computers	3
DFT-152	CAD II	3
DFT-154	Intro to Solid Modeling	3
MAT-121	Algebra/Trigonometry I	3

#### Summer Semester - Year One

Course Code	Title	Credits
DFT-254	Intermediate Solid Modeling & Rendering	3
SST-110	Introduction to Sustainability	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
ECO-251	Principles of Microeconomics	3

#### Fall Semester - Year Two

Course Code	Title	Credits
CEG-151	CAD for Engineering Technology	3
DFT-153	CAD III	3
DFT-253	CAD Data Management	3
ISC-132	Manufacturing Quality Control	3
MEC-110	Introduction to CAD/CAM	2

#### Spring Semester - Year Two

Course Code	Title	Credits
DFT-189	Emerging Technologies in CAD	2
DFT-259	CAD Project	3
ENG-112	Writing and Research in the Disciplines	3
MAC-114	Introduction to Metrology	2
SRV-110	Surveying I	4
	Total Credits	70

# Degrees

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## Computer-Aided Drafting Technology - Introduction to CAD

**Program Code**

C50150A or C50150HA

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BPR-111	Print Reading	2
DFT-151	CAD I	3
DFT-152	CAD II	3
DFT-153	CAD III	3
DFT-154	Intro to Solid Modeling	3
ISC-112	Industrial Safety	2
	Total Credits	16

# Degrees

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## Computer-Aided Drafting Technology - Solidworks Specialist

**Program Code**

C50150B or C50150HB

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
DFT-151	CAD I	3
DFT-152	CAD II	3
DFT-153	CAD III	3
DFT-154	Intro to Solid Modeling	3
DFT-253	CAD Data Management	3
DFT-254	Intermediate Solid Modeling & Rendering	3
	Total Credits	18

# Degrees

## Computer-Aided Drafting Technology

Program Code

D50150

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
BPR-111	Print Reading	2
DFT-111	Technical Drafting I	2
DFT-151	CAD I	3
ISC-112	Industrial Safety	2
ISC-132	Manufacturing Quality Control	3
ARC-114	Architectural CAD	2
ARC-114A	Architectural CAD Lab	1

### Spring Semester - Year One

Course Code	Title	Credits
BPR-121	Blueprint Reading-Mechanical	2
DFT-152	CAD II	3
DFT-154	Intro to Solid Modeling	3
DFT-189	Emerging Technologies in CAD	2
MAC-114	Introduction to Metrology	2
MAT-121	Algebra/Trigonometry I	3

### Summer Semester - Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
CIS-110	Introduction to Computers	3
SST-110	Introduction to Sustainability	3
	Total Credits	40

## Computer-Integrated Machining Technology

### Program Description

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

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

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

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate an ability to interpret mechanical work drawings, and develop/produce complex parts from these drawings, using a variety of machining tools and CNC equipment
- Demonstrate proficiency in the use of CNC tools and equipment to include programming the CNC machine, set-up, operation, control functions, and inspection
- Demonstrate proficiency in set-up and operation of advanced CNC machining techniques to include, turning, milling, wire EDM machining, and CNC programming
- Demonstrate proficiency in CNC Graphics and Multi-Axis Machining to include the use of CAD/CAM software, tool path and part geometry, operations sequencing, speed, feed and cutting depth
- Employ knowledge, skills, and attitudes that meets established industry benchmarks

### Career Opportunities

Graduates should qualify for employment in:

- aerospace product and parts manufacturing
- motor vehicle parts manufacturing metalworking machinery manufacturing
- machine shops
- other industrial settings

### Transfer Opportunities

While the AAS is a degree leading to immediate job placement upon graduation, Craven Community College has a special relationship for transfer to a BS degree in Industrial Technology with East Carolina University.

### Contact Information

Associate Dean of Career Programs  
252-638-7372

# Degrees

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Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## Computer-Integrated Machining Technology

### Program Code

A50210

### Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
BPR-111	Print Reading	2
MAC-111	Machining Technology I	6
MAC-114	Introduction to Metrology	2
MAC-153	Compound Angles	2
WLD-112	Basic Welding Processes	2

#### Spring Semester - Year One

Course Code	Title	Credits
BPR-121	Blueprint Reading-Mechanical	2
ECO-251	Principles of Microeconomics	3
MAC-112	Machining Technology II	6
MAC-121	Introduction to CNC	2
MAT-121	Algebra/Trigonometry I	3

#### Summer Semester - Year One

Course Code	Title	Credits
MAC-122	CNC Turning	2
MAC-124	CNC Milling	2
MEC-110	Introduction to CAD/CAM	2

#### Fall Semester - Year Two

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
MAC-126	CNC Metal Fabrication	2
MAC-222	Advanced CNC Turning	2
MAC-224	Advanced CNC Milling	2
MAC-231	CAM: Computer Numerical Control Turning	3
MAC-232	CAM: Computer Numerical Control Milling	3

# Degrees

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## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ENG-112	Writing and Research in the Disciplines	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
MAC-233	Appl in CNC Machining	6
MAC-234	Advanced Multi-Axis Machining	3
MAC-248	Production Procedures	2
	Total Credits	69

# Degrees

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## Basic Machinist

**Program Code**

C50210AA and C50210HA

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BPR-111	Print Reading	2
MAC-111	Machining Technology I	6
MAC-121	Introduction to CNC	2
MAC-122	CNC Turning	2
MAC-124	CNC Milling	2
	Total Credits	14

# Degrees

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## CNC Multi-Axis

**Program Code**

C50210E

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
MAC-121	Introduction to CNC	2
MAC-153	Compound Angles	2
MAC-228	Advanced CNC Processes	3
MEC-110	Introduction to CAD/CAM	2
MAC-233	Appl in CNC Machining	6
MAC-234	Advanced Multi-Axis Machining	3
	Total Credits	18

# Degrees

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## CNC Operator

**Program Code**

C50210C

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BPR-111	Print Reading	2
BPR-121	Blueprint Reading-Mechanical	2
MAC-121	Introduction to CNC	2
MAC-122	CNC Turning	2
MAC-124	CNC Milling	2
MAC-126	CNC Metal Fabrication	2
MAC-248	Production Procedures	2
	Total Credits	14

# Degrees

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## CNC Programmer

**Program Code**

C50210D

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
DFT-152	CAD II	3
MAC-121	Introduction to CNC	2
MAC-222	Advanced CNC Turning	2
MAC-224	Advanced CNC Milling	2
MAC-231	CAM: Computer Numerical Control Turning	3
MAC-232	CAM: Computer Numerical Control Milling	3
MEC-110	Introduction to CAD/CAM	2
	Total Credits	17

# Degrees

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## Intermediate Machinist

**Program Code**

C50210B

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BPR-111	Print Reading	2
BPR-121	Blueprint Reading-Mechanical	2
MAC-112	Machining Technology II	6
MAC-126	CNC Metal Fabrication	2
MAC-222	Advanced CNC Turning	2
MAC-224	Advanced CNC Milling	2
	Total Credits	16

# Degrees

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## Metrology

**Program Code**

C50210H

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
DFT-151	CAD I	3
MAC-114	Introduction to Metrology	2
BPR-111	Print Reading	2
BPR-121	Blueprint Reading-Mechanical	2
MAC-160	Coordinate Measuring Machines	3
	Total Credits	12

# Degrees

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## Computer-Integrated Machining Technology

**Program Code**

D50210

**Degree Type**

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACA-111	College Student Success	1
BPR-111	Print Reading	2
MAC-111	Machining Technology I	6
MAC-114	Introduction to Metrology	2
MAC-153	Compound Angles	2
WLD-112	Basic Welding Processes	2

#### Spring Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BPR-121	Blueprint Reading-Mechanical	2
ENG-111	Writing and Inquiry	3
MAC-112	Machining Technology II	6
MAC-121	Introduction to CNC	2
MAT-121	Algebra/Trigonometry I	3

#### Summer Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
MAC-122	CNC Turning	2
MAC-124	CNC Milling	2
MEC-110	Introduction to CAD/CAM	2
	<b>Total Credits</b>	<b>37</b>

## Cosmetology

### Program Description

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. Cosmetologists offer a wide range of beauty services, such as shampooing, cutting, coloring, and styling of hair. They may advise clients on how to care for their hair at home. In addition, cosmetologists may be trained to give manicures, pedicures, and scalp and facial treatments; provide makeup analysis; and clean and style wigs and hairpieces.

Coursework in both the 1500 clock hour diploma and 1200 clock hour certificate program includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multicultural practices, business/computer principles, product knowledge, and other selected topics. The program is fully approved by the North Carolina State Board of Cosmetic Arts, and it provides a simulated salon environment that enables students to develop manipulative skills. Students may begin in fall or spring semesters.

Coursework in the 48 SHC diploma program includes all required cosmetology classes, live model performances required by the State Board of Cosmetic Arts, and three additional courses. A study skills course promotes personal development essential for success, an English course enhances writing and speaking skills for the workplace, and a psychology course introduces basic principles of the subject as they apply to daily life and the job. Upon passing the State Board licensing exam, a graduate is a fully licensed cosmetologist.

The 32 SHC certificate program includes all required cosmetology classes and live model performances required by the State Board of Cosmetic Arts. Upon passing the State Board licensing exam, students completing the certificate are licensed as apprentices and must complete 960 clock hours (equivalent to six months of working 40 hours per week) within a year in a professional salon working under the direct supervision of a (one) licensed cosmetologist.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency. In addition, students must have satisfactory placement test scores or coursework verifying that they have completed ENG-002 in order to begin cosmetology courses.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to design and restructure hair within a safe, sanitized, and multicultural environment.
- Demonstrate an ability to recall cosmetology and esthetics theory and clinical information in order to successfully complete the North Carolina State Board of Cosmetic Arts Licensure Exam.
- Demonstrate knowledge and understanding with regard to increasing sales and customer volume within a salon.

### Career Opportunities

Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in:

- beauty salons
- barber shops
- nail salons
- day and resort spas
- nursing and other residential care homes.
- Almost one-half of all cosmetologists are self-employed.

# Degrees

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## Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## Cosmetology

Program Code  
C55140 & C55140HA

Degree Type  
Certificate

### RECOMMENDED COURSE SEQUENCE

Fall Entry

### Fall Semester - Year One

Course Code	Title	Credits
COS-111	Cosmetology Concepts I	4
COS-112	Salon I	8

### Spring Semester - Year One

Course Code	Title	Credits
COS-113	Cosmetology Concepts II	4
COS-114	Salon II	8

### Summer Semester – Year One

Course Code	Title	Credits
COS-115	Cosmetology Concepts III	4
COS-116	Salon III	4
COS-240	Contemporary Design	2

### Recommended Course Sequence

#### Spring Entry

### Spring Semester - Year One

Course Code	Title	Credits
COS-111	Cosmetology Concepts I	4
COS-112	Salon I	8

### Summer Semester - Year One

Course Code	Title	Credits
COS-115	Cosmetology Concepts III	4
COS-116	Salon III	4
COS-240	Contemporary Design	2

# Degrees

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## Fall Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
COS-113	Cosmetology Concepts II	4
COS-114	Salon II	8
	Total Credits	34

# Degrees

## Cosmetology

Program Code

D55140

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

Fall Entry

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
COS-111	Cosmetology Concepts I	4
COS-112	Salon I	8

### Spring Semester - Year One

Course Code	Title	Credits
COS-113	Cosmetology Concepts II	4
COS-114	Salon II	8

### Summer Semester - Year One

Course Code	Title	Credits
COS-115	Cosmetology Concepts III	4
COS-116	Salon III	4
ENG-111	Writing and Inquiry	3

### Fall Semester - Year Two

Course Code	Title	Credits
COS-117	Cosmetology Concepts IV	2
COS-118	Salon IV	7
PSY-150	General Psychology	3

### Recommended Course Sequence

Spring Entry

### Spring Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
COS-111	Cosmetology Concepts I	4
COS-112	Salon I	8

### Summer Semester - Year One

Course Code	Title	Credits
COS-115	Cosmetology Concepts III	4
COS-116	Salon III	4
ENG-111	Writing and Inquiry	3

# Degrees

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## Fall Semester - Year One

Course Code	Title	Credits
COS-113	Cosmetology Concepts II	4
COS-114	Salon II	8

## Spring Semester - Year Two

Course Code	Title	Credits
COS-117	Cosmetology Concepts IV	2
COS-118	Salon IV	7
PSY-150	General Psychology	3
	Total Credits	43-48

## Criminal Justice Technology

### Program Description

The Associate in Applied Science degree program in Criminal Justice Technology 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.

The 64 SHC program emphasizes criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. In addition to general education classes in mathematics, English, and sociology, students may also study issues and concepts of government, counseling, communications, computers, and technology.

The program is available completely online as well as in the traditional face-to-face seated environment. Courses are offered in the two formats in alternate semesters to encourage student completion.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency. Upon successful completion of CJC 110, a student enrolling in the Associate in Applied Science Degree program in Criminal Justice Technology will be given credit for CJC 120, CJC 131, CJC 132, CJC 221, and CJC 231. Students should contact Student Services for details.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate knowledge of the criminal justice system and its components (law enforcement, the courts, parole, juvenile justice and corrections)
- Select appropriate techniques and practices for various types of criminal investigations
- Apply knowledge of criminal and constitutional law to criminal scenarios.

### Career Opportunities

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Some of the employment examples listed below may require additional training. Examples of employment include:

- police officer
- deputy sheriff
- county detention officer
- state trooper
- intensive probation/parole surveillance officer
- correctional officer
- loss prevention specialist

### Contact Information

**CJC Program Coordinator**  
252-638-7251

**Dean of Career Programs**  
252-638-4550

# Degrees

Admissions Office  
252-638-7430

## Criminal Justice Technology

### Program Code

A55180

### Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CJC-111	Introduction to Criminal Justice	3
CJC-121	Law Enforcement Operations	3
CJC-160	Terrorism: Underlying Issues	3
CJC-231	Constitutional Law	3

#### Spring Semester - Year One

Course Code	Title	Credits
CJC-112	Criminology	3
CJC-113	Juvenile Justice	3
CJC-141	Corrections	3
CJC-212	Ethics & Community Relations	3
ENG-111	Writing and Inquiry	3

#### Summer Semester - Year One

Course Code	Title	Credits
CIS-110	Introduction to Computers	3
ENG-112	Writing and Research in the Disciplines	3
	Social/Behavioral Sciences List 1 AAS	3

#### Fall Semester - Year Two

Course Code	Title	Credits
CJC-131	Criminal Law	3
CJC-214	Victimology	3
	Criminal Justice Elective	2-3
MAT-143	Quantitative Literacy	3
	Humanities/Fine Arts Elective AAS (3 credits)	3

#### Spring Semester - Year Two

Course Code	Title	Credits
CJC-132	Court Procedure & Evidence	3
CJC-151	Introduction to Loss Prevention	3
CJC-161	Introduction to Homeland Security	3
CJC-221	Investigative Principles	4
	Total Credits	64-65

# Degrees

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## Criminal Justice Technology

**Program Code**

C55180

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CJC-111	Introduction to Criminal Justice	3
CJC-121	Law Enforcement Operations	3
CJC-131	Criminal Law	3
CJC-132	Court Procedure & Evidence	3
CJC-214	Victimology	3
	<b>Total Credits</b>	<b>15</b>

# Degrees

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## Homeland Security/Terrorism

**Program Code**

C55180B

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CJC-111	Introduction to Criminal Justice	3
CJC-131	Criminal Law	3
CJC-160	Terrorism: Underlying Issues	3
CJC-161	Introduction to Homeland Security	3
CJC-212	Ethics & Community Relations	3
	Total Credits	15

# Degrees

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## Transfer/BLET Preparation Certificate

**Program Code**

C55180EE and C55180HE

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CJC-111	Introduction to Criminal Justice	3
CJC-113	Juvenile Justice	3
CJC-121	Law Enforcement Operations	3
CJC-141	Corrections	3
	Total Credits	12

# Degrees

## Criminal Justice Technology

Program Code

D55180

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CJC-111	Introduction to Criminal Justice	3
CJC-121	Law Enforcement Operations	3
CJC-160	Terrorism: Underlying Issues	3
CJC-131	Criminal Law	3
CJC-214	Victimology	3
CJC-231	Constitutional Law	3

#### Spring Semester - Year One

Course Code	Title	Credits
CJC-112	Criminology	3
CJC-113	Juvenile Justice	3
CJC-141	Corrections	3
CJC-161	Introduction to Homeland Security	3
CJC-212	Ethics & Community Relations	3
CJC-221	Investigative Principles	4

#### Summer Semester - Year One

Course Code	Title	Credits
	Criminal Justice Elective	2-3
ENG-111	Writing and Inquiry	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
	Total Credits	46-47

## Early Childhood Education Licensure Transfer

### Program Description

Craven Community College's AAS Early Childhood Education Birth to Kindergarten (B-K) LICENSURE TRANSFER degree prepares students to transfer into one of twelve University of North Carolina institutions to earn a Bachelor's Degree in Birth-Kindergarten Teaching. Students will gain knowledge and understanding of foundational theories of child growth, development, and learning, observation and assessment, planning, domains of development, guidance, and ways to effectively communicate with parents, children, and other professionals in the field. Learning opportunities and course assignments provide students with a strong foundation in evidenced-based and current principles to work with children, families, and the community. Students will show competency in the program by integrating learned theories with practice in early childhood settings with young children under the supervision of qualified teachers.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Transfer Opportunities

The AAS Early Childhood Education Birth to Kindergarten (B-K) LICENSURE TRANSFER option is the result of a statewide articulation agreement between the NC Community College System and the University of North Carolina. The AAS ECE degree does not guarantee students acceptance into any bachelor program at UNC institutions. ECE graduates must meet applicable admission criteria and policies designated by, and earn admission into, the UNC institution of their choice.

UNC System ECE to Bachelor in Birth-Kindergarten Teaching licensure option:

- Appalachian State University
- East Carolina University
- Elizabeth City State University
- Fayetteville State University
- North Carolina Agricultural and Technical University
- North Carolina Central University
- University of North Carolina Charlotte
- University of North Carolina Greensboro
- University of North Carolina Pembroke
- University of North Carolina Wilmington
- Western Carolina University
- Winston-Salem State University

### Career Opportunities

The Birth to Kindergarten (B-K) license degree allows an individual to become a licensed teacher and work in a NC Pre-K classroom or in a kindergarten classroom. Along with a variety of careers such as (including, but not limited to):

- Child Development Specialist
- Program Directors
- Child Life Specialists
- Paraprofessionals in early special education

# Degrees

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## Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## Early Childhood Education Birth to Kindergarten Licensure Transfer

### Program Code

A55220C

### Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
COM-231	Public Speaking	3
EDU-119	Intro to Early Childhood Education	4
EDU-131	Child, Family, and Community	3
EDU-153	Health, Safety, and Nutrition	3

#### Spring Semester - Year One

Course Code	Title	Credits
EDU-144	Child Development I	3
EDU-145	Child Development II	3
EDU-146	Child Guidance	3
EDU-234	Infants, Toddlers, and Twos	3
MAT-143	Quantitative Literacy	3

#### Summer Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
MUS-110	Music Appreciation	3
PSY-150	General Psychology	3

#### Fall Semester - Year Two

Course Code	Title	Credits
EDU-151	Creative Activities	3
EDU-221	Children With Exceptionalities	3
EDU-216	Foundations of Education	3
EDU-280	Language and Literacy Experiences	3
SOC-210	Introduction to Sociology	3

# Degrees

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## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BIO-110	Principles of Biology	4
EDU-250	Teacher Licensure Preparation	3
EDU-284	Early Childhood Capstone Practicum	4
GEL-111	Geology	4
	Total Credits	70

# Degrees

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## Early Childhood Education

**Program Code**

C55220

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
EDU-119	Intro to Early Childhood Education	4
EDU-131	Child, Family, and Community	3
EDU-146	Child Guidance	3
EDU-153	Health, Safety, and Nutrition	3
EDU-184	Early Childhood Introductory Practicum	2
	<b>Total Credits</b>	<b>15</b>

# Degrees

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## Early Childhood Education – Child Development

**Program Code**

C55220AA and C55220HA

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
EDU-119	Intro to Early Childhood Education	4
EDU-144	Child Development I	3
EDU-145	Child Development II	3
EDU-146	Child Guidance	3
	Total Credits	13

# Degrees

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## Early Childhood Education – Preschool

**Program Code**

C55220D

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
EDU-119	Intro to Early Childhood Education	4
EDU-131	Child, Family, and Community	3
EDU-145	Child Development II	3
EDU-146	Child Guidance	3
EDU-153	Health, Safety, and Nutrition	3
	Total Credits	16

# Degrees

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## Infant/Toddler Care

**Program Code**

C55220F

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
EDU-119	Intro to Early Childhood Education	4
EDU-131	Child, Family, and Community	3
EDU-144	Child Development I	3
EDU-153	Health, Safety, and Nutrition	3
EDU-234	Infants, Toddlers, and Twos	3
	<b>Total Credits</b>	<b>16</b>

# Degrees

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## Intro to Early Childhood Education

**Program Code**

C55220E and C55220HE

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
EDU-119	Intro to Early Childhood Education	4
EDU-144	Child Development I	3
EDU-145	Child Development II	3
EDU-153	Health, Safety, and Nutrition	3
	<b>Total Credits</b>	<b>13</b>

# Degrees

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## Early Childhood Education

**Program Code**

D55220

**Degree Type**

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACA-111	College Student Success	1
EDU-119	Intro to Early Childhood Education	4
EDU-131	Child, Family, and Community	3
EDU-153	Health, Safety, and Nutrition	3
PSY-150	General Psychology	3

#### Spring Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
EDU-144	Child Development I	3
EDU-145	Child Development II	3
EDU-146	Child Guidance	3
EDU-234	Infants, Toddlers, and Twos	3
ENG-111	Writing and Inquiry	3

#### Fall Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
EDU-151	Creative Activities	3
EDU-184	Early Childhood Introductory Practicum	2
EDU-221	Children With Exceptionalities	3
EDU-280	Language and Literacy Experiences	3
ENG-112	Writing and Research in the Disciplines	3
	<b>Total Credits</b>	<b>43</b>

# Degrees

## Early Childhood Education Pre-Birth to Kindergarten

Program Code

D55220A

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
EDU-119	Intro to Early Childhood Education	4
EDU-131	Child, Family, and Community	3
EDU-153	Health, Safety, and Nutrition	3
PSY-150	General Psychology	3

#### Spring Semester - Year One

Course Code	Title	Credits
EDU-144	Child Development I	3
EDU-145	Child Development II	3
EDU-146	Child Guidance	3
EDU-234	Infants, Toddlers, and Twos	3
EDU-234A	Infants, Toddlers, and Twos Lab	1
ENG-111	Writing and Inquiry	3

#### Fall Semester - Year Two

Course Code	Title	Credits
EDU-151	Creative Activities	3
EDU-221	Children With Exceptionalities	3
EDU-280	Language and Literacy Experiences	3
	Early Childhood Elective	3
	Total Credits	42

## Early Childhood Education Non-Licensure Transfer

### Program Description

Craven Community College's AAS Early Childhood Education NON-LICENSURE TRANSFER degree prepares students to transfer into one of eight University of North Carolina institutions to earn a Bachelor's Degree in a related Early Childhood non-licensure program. You will focus on important topics in early childhood such as development, learning assessment, special learners, and instructional strategy. Students will combine learned theories with practice in actual settings that include young children under the supervision of qualified teachers.

### Admission Criteria

Admission to this AAS program requires that students be high school graduates or have a recognized equivalency.

### Transfer Opportunities

The AAS Early Childhood Education NON-Licensure Transfer option is the result of a statewide articulation agreement between the NC Community College System and the University of North Carolina. The AAS ECE degree does not guarantee students acceptance into any bachelor program at UNC institutions. ECE graduates must meet applicable admission criteria and policies designated by, and earn admission into, the UNC institution of their choice.

UNC System Bachelor in Early Childhood Non-teaching licensure option, with corresponding Bachelor Degree title:

- East Carolina University: Family and Community Services, Child Development Concentration
- Elizabeth City State University: Child, Family and Community
- Fayetteville State University: Birth-Kindergarten Non-Teaching
- North Carolina Agricultural and Technical University: Child Development and Family Studies
- North Carolina Central University: Family Consumer Sciences, Child Development and Family Relations Concentration
- University of North Carolina Greensboro: Early Care and Education
- Western Carolina University: Early Childhood
- Winston-Salem State University: Early Intervention and Preschool Concentration or Business Optional Concentration

### Career Opportunities

With this degree, you will have options to work in licensed childcare facilities as a lead teacher or center director/administrator. Individuals who earn the non-licensure early childhood degree may work in various agencies that serve young children, families, and early childhood educators, such as (including, but not limited to):

- The Division of Child Development and Early Education
- The North Carolina Early Intervention Branch (NCEI), which is part of the North Carolina Division of Public Health
- Child Care Resource and Referral (CCR&R)
- Smart Start/local Partnerships for Children

### Contact Information

Associate Dean of Career Programs  
252-638-7372

# Degrees

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Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## Early Childhood Education Non-Licensure Transfer

### Program Code

A55220B

### Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
COM-231	Public Speaking	3
EDU-119	Intro to Early Childhood Education	4
EDU-131	Child, Family, and Community	3
EDU-153	Health, Safety, and Nutrition	3

#### Spring Semester - Year One

Course Code	Title	Credits
EDU-144	Child Development I	3
EDU-145	Child Development II	3
EDU-146	Child Guidance	3
EDU-234	Infants, Toddlers, and Twos	3
MAT-143	Quantitative Literacy	3

#### Summer Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
MUS-110	Music Appreciation	3
PSY-150	General Psychology	3

#### Fall Semester - Year Two

Course Code	Title	Credits
EDU-151	Creative Activities	3
EDU-221	Children With Exceptionalities	3
EDU-261	Early Childhood Administration I	3
EDU-280	Language and Literacy Experiences	3
SOC-210	Introduction to Sociology	3

#### Spring Semester - Year Two

Course Code	Title	Credits
BIO-110	Principles of Biology	4
EDU-262	Early Childhood Administration II	3
EDU-284	Early Childhood Capstone Practicum	4
GEL-111	Geology	4

# Degrees

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Total Credits

70

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## Early Childhood Education Non-Transfer

### Program Description

The Associate in Applied Science degree program in Early Childhood Education prepares individuals to work with children birth through age 8 in diverse learning environments. The curriculum is designed to lead to responsible and effective employment in positions ranging from aide to head teacher in a variety of early childhood settings. Students combine learning theories with practice in actual settings with young children under the supervision of qualified teachers.

Craven Community College's Early Childhood Education program is accredited by the National Association for the Education of Young Children.

The full-time program is taught in a Saturday cohort or online. The program provides theory, practical information and extensive supervised experience concerning normal early human development, developmental difficulties, caring for and educating young children, methods for fostering child development, and the operation and management of early childhood facilities. Coursework in the 67 SHC program 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.

Because current research shows that the early years are among the most vital in human development, professional and appropriate educational experiences will develop the Early Childhood Associate student's thinking, practical and personal skills necessary to teach and care for young children. These activities take place in college classes and seminars, and also in local area field sites. In the field, extensive "hands on" observation and participation give opportunities to apply education principles, receive individual guidance and feedback, and be involved first-hand, with day-to-day activities in diverse learning environments. The program offers first-year and capstone practicum opportunities for students.

Graduates of the program are prepared to plan and implement developmentally appropriate programs in early childhood settings.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency. In addition, students must have satisfactory placement test scores or coursework verifying that they have completed ENG-002 in order to begin EDU courses. Requirements for select courses are subject to change depending on state of North Carolina agency requirements. Select courses have attendance/additional requirements mandated by state agencies.

### Program Learning Outcomes

Graduates of this program will be able to:

- Observe, document, and assess child behavior and developmental characteristics to support young children and families.
- Use developmentally effective approaches to connect with families and children.
- Use content knowledge to build meaningful curriculum.

### Career Opportunities

Employment opportunities include:

- child development and child care programs
- preschools
- public and private schools

# Degrees

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- recreational centers
- Head Start programs
- school-age programs

## Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## Early Childhood Education Non-Transfer

Program Code  
A55220A

Degree Type  
Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CIS-113	Computer Basics	1
EDU-119	Intro to Early Childhood Education	4
EDU-131	Child, Family, and Community	3
EDU-153	Health, Safety, and Nutrition	3
ENG-111	Writing and Inquiry	3

#### Spring Semester - Year One

Course Code	Title	Credits
EDU-144	Child Development I	3
EDU-145	Child Development II	3
EDU-146	Child Guidance	3
EDU-234	Infants, Toddlers, and Twos	3

#### Summer Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
MUS-110	Music Appreciation	3
PSY-150	General Psychology	3

# Degrees

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## Fall Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
EDU-151	Creative Activities	3
EDU-184	Early Childhood Introductory Practicum	2
EDU-221	Children With Exceptionalities	3
EDU-259	Curriculum Planning	3
EDU-280	Language and Literacy Experiences	3

## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
EDU-157	Active Play	3
EDU-284	Early Childhood Capstone Practicum	4
EDU-288	Advanced Issues in Early Childhood, Education	2
MAT-143	Quantitative Literacy	3
EDU-216	Foundations of Education	3
	Total Credits	65

## Electronic Engineering Technology

### Program Description

Although the terms electrical and electronics engineering often are used interchangeably in academia and industry, there is a difference. Electronics engineering focuses on applications of electricity to control systems or signal processing, according to the Occupational Outlook Handbook.

Craven's Electronics Engineering Technology curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems. Students will be able to work with industrial/computer controls, manufacturing systems, communication systems, and power electronic systems.

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures that students will develop the skills necessary to perform entry-level tasks. Emphasis in the program is placed on students' ability to analyze and troubleshoot electronic systems. As an Associate in Applied Science degree, the Electronics Engineering Technology program requires students to complete two semesters of algebra and trigonometry, as well as communications, psychology and a humanities/fine arts course to complete the 69 SHC required.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency. It is suggested a student have credit for DMA 050 to begin study in ELC 131, the foundation course for Electrical Engineering Technology.

### Program Learning Outcomes

Graduates of this program will be able to:

- Safely and effectively use common tools and operate test equipment found in the electronic field.
- Demonstrate a working knowledge of the principles and concepts associated with electronic circuits and systems and the proper utilization of equipment.
- Read, interpret, and employ electronic schematics (both component and functional block diagrams) in the installation, maintenance, troubleshooting, and repair of electronic circuits and systems.
- Perform preventive maintenance, troubleshoot, and repair a variety of electronic circuits and systems.

### Career Opportunities

Graduates should qualify for employment in jobs such as:

- electronics engineering technician
- field service technician
- maintenance technician
- electronic tester
- electronic systems integrator
- bench technician
- production control technician.

### Transfer Opportunities

While the AAS is a degree leading to immediate job placement upon graduation, Craven Community College has a special relationship for transfer to BS degrees in Industrial Technology with Appalachian State University, East Carolina University, NC A and T University, and the University of North Carolina at Charlotte.

# Degrees

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## Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## Electronic Engineering Technology

Program Code

A40200

Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester – Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CIS-110	Introduction to Computers	3
ELC-131	Circuit Analysis I	4
ENG-111	Writing and Inquiry	3
ISC-112	Industrial Safety	2
MAT-121	Algebra/Trigonometry I	3

#### Spring Semester – Year One

Course Code	Title	Credits
ELC-113	Residential Wiring	4
ELN-131	Analog Electronics I	4
ELN-133	Digital Electronics	4
CIS-115	Introduction to Programming and Logic	3

#### Summer Semester – Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
ECO-251	Principles of Microeconomics	3
	Humanities/Fine Arts Elective AAS (3 credits)	3

#### Fall Semester - Year Two

Course Code	Title	Credits
ELC-117	Motors and Controls	4
ELN-231	Industrial Controls	3
ELN-232	Introduction to Microprocessors	4
ELN-260	Prog Logic Controllers	4

# Degrees

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## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ELC-135	Electrical Machines	3
ELN-132	Analog Electronics II	4
ELN-234	Communication Systems	4
	Electronics Elective	3
	Total Credits	69

# Degrees

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## Electronic Engineering Technology - Basic Robotics

**Program Code**

C40200C

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ELC-117	Motors and Controls	4
ELN-231	Industrial Controls	3
ELN-260	Prog Logic Controllers	4
ISC-112	Industrial Safety	2
	Total Credits	13

# Degrees

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## Electronic Engineering Technology - Communications Equipment Repair

**Program Code**

C40200E and C40200HE

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ELC-131	Circuit Analysis I	4
ELN-131	Analog Electronics I	4
ELN-133	Digital Electronics	4
ELN-234	Communication Systems	4
	Total Credits	16

# Degrees

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## Electronic Engineering Technology - Electronic Technician

**Program Code**

C40200B

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ELN-132	Analog Electronics II	4
ELN-231	Industrial Controls	3
ELN-232	Introduction to Microprocessors	4
ELN-234	Communication Systems	4
	Total Credits	15

# Degrees

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## Electronic Engineering Technology - Intro to Electronics

**Program Code**

C40200AA abd C40200HA

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ELC-131	Circuit Analysis I	4
ELN-131	Analog Electronics I	4
ELN-133	Digital Electronics	4
ISC-112	Industrial Safety	2
	Total Credits	14

# Degrees

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## Electronic Engineering Technology - Home Appliance Repair

Program Code

D40200

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester – Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
ELC-117	Motors and Controls	4
ENG-111	Writing and Inquiry	3
ELC-131	Circuit Analysis I	4
ISC-112	Industrial Safety	2
MAT-121	Algebra/Trigonometry I	3

#### Spring Semester – Year One

Course Code	Title	Credits
AHR-110	Introduction to Refrigeration	5
ELC-113	Residential Wiring	4
ELN-133	Digital Electronics	4

#### Summer Semester - Year One

Course Code	Title	Credits
AHR-111	HVACR Electricity	3
AHR-115	Refrigeration Systems	2
ELN-131	Analog Electronics I	4
	Total Credits	39

## Esthetics Technology

### Program Description

The Esthetics Technology program will provide students with hands-on experience in the art of skin care, including electrical facials, basic facials, hair removal, and many custom facial principles. Students learn about general health and wellness, cosmetics, and basic dermatology, chemistry, and anatomy.

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

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

### Admission Criteria

Esthetics is a selective admissions program. It has fall semester entrance only and does not have a summer term. Entry is competitive; in the case that two or more students receive equal scoring, the earliest date of application to the program will be used to determine the entering candidate.

A student who wishes to apply for the Esthetic Program must meet the following requirements:

- Complete the Craven Community College application process (application, submission of all transcripts and completion of appropriate placement test).
- Fulfill all developmental requirements prior to admission into the program, i.e. place out of ENG-002.
- Submit the Esthetic Program Application and two Craven CC Esthetics Program Personal Reference forms completed by non-family members prior to last working day in July.
- Attend an individual information session with the Cosmetic Arts Faculty member prior to the end of the summer semester.
- Upon acceptance, applicants must submit complete immunization history forms, including PPD test, Hepatitis B series, and Tetanus booster.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to perform esthetic services in a safe, sanitized, and multicultural environment.
- Demonstrate an ability to recall cosmetology esthetics theory and clinical information in order to successfully complete the North Carolina State Board of Cosmetic Arts Licensure Exam.
- Demonstrate knowledge and understanding with regard to increasing sales and customer volume within a salon.

### Career Opportunities

Upon successfully passing the State Board exam, graduates will be issued a license. Employment opportunities include beauty salons, spas, dermatology offices, and other related businesses as:

- an esthetician
- skin specialist
- educator
- platform artist
- manufacturer's representative
- facial product salesperson.

# Degrees

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## Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## Esthetics Technology

Program Code

C55230

Degree Type

Certificate

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
COS-119	Esthetics Concepts I	2
COS-120	Esthetics Salon I	6

#### Spring Semester - Year One

Course Code	Title	Credits
COS-125	Esthetics Concepts II	2
COS-126	Esthetics Salon II	6
	Total Credits	16

# Degrees

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## General Occupational Technology

### General Occupational Technology

**Program Code**

A55280

**Degree Type**

Associate in Applied Science

**Curriculum Description**

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

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

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

**Additional Information**

At Craven CC, the curriculum leading to an associate degree in General Occupational Technology (GOT) results in a customized degree, comprised of both required core courses and electives. Students may select electives from a combination of any of the technical curricula. Prior to entering the GOT program, the student must present a proposed complete program to their academic advisor or the Dean for approval. Once approved, changes in the curriculum may be made only upon the recommendation of the advisor and/or employer and with the approval of the Division Dean.

Students who enroll in this program are cautioned to select their elective courses in such a manner that the achieved skills will be attractive to business and the industry. Students already employed and considering remaining in that field are encouraged to work closely with their employers in determining a program of study that is maximally beneficial to both.

**Contact Information**

**Associate Dean of Career Programs**

252-638-7372

**Dean of Career Programs**

252-638-4550

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Total Credits

64-76

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## Health Information Technology

### Program Description

Students who are interested in the digital/computer side of healthcare may enjoy the Health Information Technology (HIT) field. After a patient meets with their healthcare provider, all the information collected from their medical history, their diagnosis and everything in-between has to be processed, analyzed, compiled, maintained and managed to support the patient and the hospital or doctor's office.

The HIT program is 68 SHC and includes two Professional Practice Experiences (PPEs) in local health care facilities. Students will learn to supervise departmental functions; classify, code and index diagnoses and procedures; coordinate information for cost control, quality management, statistics, marketing and planning; monitor governmental and non-governmental standards; facilitate research; and design system controls to monitor patient information security.

In this program, students will study anatomy, physiology, and pathophysiology; health care statistics, medical terminology and coding. Students also complete courses in healthcare law and ethics, quality management and computers for health care. A professional issues course is offered in the last semester, and students also complete six SHC in English and a course each in either psychology or economics and humanities/fine arts.

Graduates of the Associate in Applied Science (AAS) degree in the Health Information Technology Program will be eligible to take the national certification examination to become a Registered Health Information Technician (RHIT).

Craven Community College's Health Information Technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management (CAHIIM).

### Admission Criteria

Health Information Technology is a selective admissions program. Selective admission into A45360 (Associate in Applied Science, Health Information Technology) requires adherence to the program of study by successfully completing all courses as outlined for progression throughout the curriculum. Please refer to the Associate Degree Health Information Technology Handbook for additional admission, progression and graduation requirements.

Admission requirements into the Health Information Technology Program to include the following:

- General Admission to Craven Community College must be completed before applying for the Health Information Technology program.
- Math – High School GPA must be 2.8 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for MAT 152 & BIO 163.
- English – High School GPA must be 2.8 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for ENG 111.
- Prior to beginning PPEs, students must submit a completed physical examination form signed by a licensed physician and documentation of immunizations.
- Clinical facilities require criminal background checks and drug screening. Any expenses associated with these requirements are the responsibility of the student. Pending the outcome, clinical facilities may deny a student the opportunity to complete the clinical portion of the program. A student who is unable to complete the clinical portion of the program will be dismissed from the program.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate that patient health information is complete, accurate, and protected.
- Effectively use computer applications to assemble and analyze patient data for the purpose of improving patient care or controlling costs.

# Degrees

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- Code, classify, and index diagnoses and procedures for the purpose of reimbursement, standardization, retrieval, and statistical analysis.
- Demonstrate critical thinking, problem solving, and reasoning skills in health information management.

## Career Opportunities

Employment opportunities for registered and non-registered health information technicians exist in:

- hospitals
- rehabilitation facilities
- nursing homes
- health insurance organizations
- outpatient clinics
- physicians' offices
- hospices
- mental health facilities

## Contact Information

**HIT Program Director**  
252-638-7316

**Health Programs Admission & Advising Coordinator**  
(252) 639-2025  
[healthcare@cravencc.edu](mailto:healthcare@cravencc.edu)

## Health Information Technology

**Program Code**  
A45360

**Degree Type**  
Associate in Applied Science

The following Plan of Study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate, the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This Plan of Study is subject to change when the college thinks such action is in the best interest of the student or the Program. It is the responsibility of the student to meet the requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions Office to determine if readmission is necessary.

### STANDARD COURSE SEQUENCE

#### Fall Semester – Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-163	Basic Anatomy & Physiology	5
ENG-111	Writing and Inquiry	3
MED-121	Medical Terminology I	3
HIT-110	Introduction to Healthcare and HIM	3
HIT-112	Health Law and Ethics	3

# Degrees

## Spring Semester – Year One

Course Code	Title	Credits
MAT-152	Statistical Methods I	4
MED-122	Medical Terminology II	3
CIS-110	Introduction to Computers	3
HIT-114	Health Data Systems and Standards	3
HIT-124	Professional Practice Exp II	1

## Summer Semester – Year One

Course Code	Title	Credits
HIT-226	Pathophysiology & Pharmacology	3
HIT-217	Quality & Data Analysis	3
	ENG-112 or ENG-114	3

## Fall Semester - Year Two

Course Code	Title	Credits
HIT-211	Diagnosis Coding and Reporting	3
HIT-213	Inpatient Procedure Coding & Reporting	2
HIT-220	Electronic Health Records	2
	Humanities/Fine Arts Elective AAS (3 credits)	3
	Social/Behavioral Sciences List 1 AAS	3

## Spring Semester - Year Two

Course Code	Title	Credits
HIT-214	Outpatient Procedure Coding/Reporting	2
HIT-215	Revenue Cycle Management	2
HIT-218	Management Principles in HIT	3
HIT-222	Prof Practice Exp III	2
HIT-280	Health Information Management Capstone	2
HIT-225	Healthcare Informatics	3
	Total Credits	68

# Degrees

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## Health Information Technology

**Program Code**

C45360A and C45360HA

**Degree Type**

Certificate

The following plan of study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This Plan of Study is subject to change when the college thinks such action is in the best interest of the student or the Program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

**Required Courses**

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
HIT-110	Introduction to Healthcare and HIM	3
HIT-112	Health Law and Ethics	3
MED-121	Medical Terminology I	3
MED-122	Medical Terminology II	3
CIS-110	Introduction to Computers	3
	<b>Total Credits</b>	<b>15</b>

## Industrial Systems Technology

### Program Description

Craven Community College's Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to service, maintain, repair, or install equipment for a wide range of industries. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial equipment and physical facilities.

Students will learn technical skills in blueprint reading, electricity, hydraulics/pneumatics, machining, welding, and various maintenance procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of any of the various levels of this curriculum, graduates should gain the necessary practical skills and related technical information to qualify for employment or advancement in the various areas of industrial maintenance technology.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Upon successful completion of the Industrial Systems Technology program, the graduate should be able to:

- Demonstrate proficiency to safely and effectively inspect, install, perform preventative maintenance, troubleshoot, and repair a variety of industrial systems.
- Demonstrate proficiency with regard to industry standards while working with manufacturing tools and equipment, to include electronic test, mechanical, machine and welding equipment.
- Demonstrate knowledge and understanding of reading, interpreting mechanical drawings and using CAD software.

### Career Opportunities

Upon completion of the program, Graduates can enter the workforce as:

- Electricians
- Industrial Technicians
- Maintenance Technicians

### Transfer Opportunities

While the AAS is a degree leading to immediate job placement upon graduation, Craven Community College has a special relationship for transfer to a BS degree in Industrial Technology with East Carolina University.

### Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

# Degrees

## Industrial Systems Technology

**Program Code**

A50240

**Degree Type**

Associate in Applied Science

**RECOMMENDED COURSE SEQUENCE**

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
BPR-111	Print Reading	2
CIS-113	Computer Basics	1
ELC-131	Circuit Analysis I	4
ISC-112	Industrial Safety	2
MAC-121	Introduction to CNC	2
WLD-112	Basic Welding Processes	2

### Spring Semester - Year One

Course Code	Title	Credits
AHR-110	Introduction to Refrigeration	5
BPR-121	Blueprint Reading-Mechanical	2
ELC-113	Residential Wiring	4
ENG-111	Writing and Inquiry	3
MNT-110	Introduction to Maintenance Procedures	2

### Summer Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
MAT-110	Mathematical Measurement and Literacy	3
	Humanities/Fine Arts Elective AAS (3 credits)	3

### Fall Semester - Year Two

Course Code	Title	Credits
ELC-117	Motors and Controls	4
ELN-231	Industrial Controls	3
ELN-260	Prog Logic Controllers	4
MEC-111	Machine Processes I	3

### Spring Semester - Year Two

Course Code	Title	Credits
DFT-152	CAD II	3
HYD-110	Hydraulics/Pneumatics I	3
MNT-111	Maintenance Practices	3
ECO-251	Principles of Microeconomics	3
	Elective (2 cr hr)	2
	Total Credits	67

# Degrees

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## Industrial Systems Technology: Clean Energy Certificate

**Program Code**

C50240E

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ISC-112	Industrial Safety	2
BPR-111	Print Reading	2
ELC-131	Circuit Analysis I	4
MNT-110	Introduction to Maintenance Procedures	2
WLD-112	Basic Welding Processes	2
CIS-113	Computer Basics	1
	Total Credits	13

# Degrees

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## Industrial Systems Technology: Facilities Maintenance

**Program Code**

C50240B and C50240HB

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BPR-111	Print Reading	2
ELC-131	Circuit Analysis I	4
ISC-112	Industrial Safety	2
MEC-111	Machine Processes I	3
MNT-110	Introduction to Maintenance Procedures	2
MNT-111	Maintenance Practices	3
	Total Credits	16

# Degrees

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## Industrial Systems Technology: Introduction to Trades

**Program Code**

C50240D and C50240HD

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BPR-111	Print Reading	2
ELC-131	Circuit Analysis I	4
ISC-112	Industrial Safety	2
MEC-130	Mechanisms	3
WLD-112	Basic Welding Processes	2
	Total Credits	13

# Degrees

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## Industrial Systems Technology: Mechanical Maintenance

**Program Code**

C50240A and C50240HA

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ELC-117	Motors and Controls	4
ELC-131	Circuit Analysis I	4
HYD-110	Hydraulics/Pneumatics I	3
MAC-121	Introduction to CNC	2
MEC-111	Machine Processes I	3
WLD-112	Basic Welding Processes	2
	Total Credits	18

# Degrees

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## Industrial Systems Technology: Trade Maintenance

**Program Code**

C50240C and C50240HC

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
DFT-152	CAD II	3
ELC-131	Circuit Analysis I	4
ISC-112	Industrial Safety	2
ISC-132	Manufacturing Quality Control	3
MEC-111	Machine Processes I	3
MEC-145	Manufacturing Materials I	3
	Total Credits	18

# Degrees

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## Industrial Systems Technology

**Program Code**

D50240

**Degree Type**

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACA-111	College Student Success	1
BPR-111	Print Reading	2
ELC-117	Motors and Controls	4
ELC-131	Circuit Analysis I	4
ISC-112	Industrial Safety	2
MAC-121	Introduction to CNC	2
WLD-112	Basic Welding Processes	2

#### Spring Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
DFT-152	CAD II	3
ELC-113	Residential Wiring	4
HYD-110	Hydraulics/Pneumatics I	3
MEC-111	Machine Processes I	3
MNT-110	Introduction to Maintenance Procedures	2
MNT-111	Maintenance Practices	3

#### Summer Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ENG-111	Writing and Inquiry	3
MAT-110	Mathematical Measurement and Literacy	3
	Total Credits	41

## Information Technology

### Information Technology Options

Information Technology students may earn Associate in Applied Science degrees in three core areas (Technical Support, Cybersecurity and Networking, and Cybersecurity Coding). Each degree, diploma, and certificate in Information Technology is listed here. Students may NOT graduate under the A25590 program with no suffix.

### Program Description

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

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

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

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Objectives

Graduates of this program will be able to:

- **A25590F** Technical Support: Identify methods and technologies to evaluate, troubleshoot, and solve technical problems in an Information Technology system.
- **A25590H** Cybersecurity & Networking: Build a simple local area network and secure the network by identifying risks and implementing policies.
- **A25590I Cybersecurity Coding**: Build and maintain an Information Technology network and implement cybersecurity strategies to secure the network.

### Career Opportunities

Graduates should qualify for employment as:

- Computer user support specialists
- Network and Computer Systems Administrators
- Network Security Specialists
- Computer Hardware Support and Repair technicians
- Cybersecurity analysts
- IT Programmer Analysts
- Software Testers

# Degrees

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## Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## Information Technology - Cybersecurity & Networking

Program Code

A25590H

Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CIS-115	Introduction to Programming and Logic	3
CTI-110	Web, Programming, and Database Foundation	3
CTI-120	Network and Security Foundation	3
ENG-111	Writing and Inquiry	3
NOS-110	Operating Systems Concepts	3

#### Spring Semester - Year One

Course Code	Title	Credits
CTS-115	Information Systems Business Concepts	3
NET-125	Introduction to Networks	3
NOS-220	Linux/Unix Administration I	3
NOS-230	Windows Administration I	3
SEC-110	Security Concepts	3

#### Summer Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
ECO-251	Principles of Microeconomics	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
	Mathematics Electives AAS	3

#### Fall Semester - Year Two

Course Code	Title	Credits
CTI-141	Cloud and Storage Concepts	3
NET-126	Switching and Routing	3
SEC-151	Introduction to Protocol Analysis	3
SEC-160	Security Administration I	3
CSC-113	Artificial Intelligence Fundamentals	3

# Degrees

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## Spring Semester - Year Two

Course Code	Title	Credits
CTI-289	Computer Technology Integration Capstone Project	3
NET-225	Enterprise Networking	3
NET-226	Network Programmability	3
SEC-175	Perimeter Defense	3
SEC-210	Intrusion Detection	3
	IT Cyber Security Major Elective (Tech Support)	2
	Total Credits	74

# Degrees

## Information Technology - Cybersecurity Coding

### Program Code

A255901

### Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CIS-115	Introduction to Programming and Logic	3
CTI-110	Web, Programming, and Database Foundation	3
CTI-120	Network and Security Foundation	3
ENG-111	Writing and Inquiry	3
NOS-110	Operating Systems Concepts	3

#### Spring Semester - Year One

Course Code	Title	Credits
CSC-121	Python Programming	3
CSC-151	JAVA Programming	3
CTS-115	Information Systems Business Concepts	3
NOS-220	Linux/Unix Administration I	3
SEC-110	Security Concepts	3
NET-125	Introduction to Networks	3

#### Summer Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
ECO-251	Principles of Microeconomics	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
	Mathematics Electives AAS	3

#### Fall Semester - Year Two

Course Code	Title	Credits
DBA-120	Database Programming I	3
CSC-122	Python Application Development	3
CSC-211	Ethical Hacking With Python I	3
CSC-221	Advanced Python Programming	3
	IT Coding Elective	2-3

#### Spring Semester - Year Two

Course Code	Title	Credits
CSC-113	Artificial Intelligence Fundamentals	3
CSC-134	C++ Programming	3
CSC-154	Software Development	3
CTI-289	Computer Technology Integration Capstone Project	3
DBA-223	MySQL Database Programming II	3
	IT Coding Elective	2-3
	Total Credits	72-73

# Degrees

## Information Technology - Technical Support

**Program Code**

A25590F

**Degree Type**

Associate in Applied Science

**RECOMMENDED COURSE SEQUENCE**

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CIS-110	Introduction to Computers	3
CIS-115	Introduction to Programming and Logic	3
CTI-110	Web, Programming, and Database Foundation	3
CTI-120	Network and Security Foundation	3
NOS-110	Operating Systems Concepts	3

### Spring Semester - Year One

Course Code	Title	Credits
CTS-115	Information Systems Business Concepts	3
CTS-155	Tech Support Functions	3
ENG-111	Writing and Inquiry	3
NET-125	Introduction to Networks	3
NOS-230	Windows Administration I	3
SEC-110	Security Concepts	3

### Summer Semester - Year One

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
	Mathematics Electives AAS	3
ECO-251	Principles of Microeconomics	3

### Fall Semester - Year Two

Course Code	Title	Credits
CTI-141	Cloud and Storage Concepts	3
CTS-130	Spreadsheet	3
DBA-120	Database Programming I	3
	IT Tech Support Associate Degree - Major Electives	3

### Spring Semester - Year Two

Course Code	Title	Credits
CSC-113	Artificial Intelligence Fundamentals	3
CTI-289	Computer Technology Integration Capstone Project	3
CTS-120	Hardware/Software Support	3
NOS-220	Linux/Unix Administration I	3
	IT Tech Support Associate Degree - Major Electives	3
	Total Credits	73

# Degrees

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## Information Technology - A+ Prep

**Program Code**

C25590M and C25590HM

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CTI-120	Network and Security Foundation	3
CTI-141	Cloud and Storage Concepts	3
CTS-120	Hardware/Software Support	3
NOS-110	Operating Systems Concepts	3
	Total Credits	12

# Degrees

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## Information Technology - CISCO CCNA Prep

**Program Code**

C25590N

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CTI-120	Network and Security Foundation	3
NET-125	Introduction to Networks	3
NET-126	Switching and Routing	3
NET-225	Enterprise Networking	3
	Total Credits	12

# Degrees

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## Information Technology - Coding

**Program Code**

C25590TU and C25590HU

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CIS-115	Introduction to Programming and Logic	3
CTI-110	Web, Programming, and Database Foundation	3
CSC-121	Python Programming	3
CSC-154	Software Development	3
CSC-151	JAVA Programming	3
	Total Credits	15

# Degrees

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## Information Technology - Cybersecurity Coding

**Program Code**

C25590T and C25590HT

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CIS-115	Introduction to Programming and Logic	3
CTI-110	Web, Programming, and Database Foundation	3
CSC-121	Python Programming	3
CSC-211	Ethical Hacking With Python I	3
	Total Credits	12

# Degrees

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## Information Technology - Cybersecurity Technician

**Program Code**

C255901

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CTI-120	Network and Security Foundation	3
SEC-110	Security Concepts	3
SEC-151	Introduction to Protocol Analysis	3
SEC-160	Security Administration I	3
SEC-175	Perimeter Defense	3
SEC-210	Intrusion Detection	3
	Total Credits	18

# Degrees

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## Information Technology - Entry Level Computer Technician

**Program Code**

C25590Q and C25590HQ

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CTI-110	Web, Programming, and Database Foundation	3
CTI-120	Network and Security Foundation	3
CTS-120	Hardware/Software Support	3
NOS-110	Operating Systems Concepts	3
SEC-110	Security Concepts	3
	Total Credits	15

# Degrees

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## Information Technology - Linux Operating Systems

**Program Code**

C25590L

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CIS-115	Introduction to Programming and Logic	3
CTI-120	Network and Security Foundation	3
NOS-110	Operating Systems Concepts	3
NOS-220	Linux/Unix Administration I	3
	<b>Total Credits</b>	<b>12</b>

# Degrees

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## Information Technology - Productivity Software

**Program Code**

C25590B and C25590HB

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CIS-110	Introduction to Computers	3
CTI-110	Web, Programming, and Database Foundation	3
CTS-115	Information Systems Business Concepts	3
CTS-130	Spreadsheet	3
	Total Credits	12

# Degrees

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## Information Technology - Security + Prep

**Program Code**

C25590J and C25590HJ

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CTI-120	Network and Security Foundation	3
NOS-110	Operating Systems Concepts	3
SEC-110	Security Concepts	3
SEC-160	Security Administration I	3
	Total Credits	12

# Degrees

## Information Technology - Cybersecurity & Networking

Program Code

D25590H

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CTI-110	Web, Programming, and Database Foundation	3
CTI-120	Network and Security Foundation	3
ENG-111	Writing and Inquiry	3
NOS-110	Operating Systems Concepts	3

#### Spring Semester - Year One

Course Code	Title	Credits
CTS-115	Information Systems Business Concepts	3
ENG-112	Writing and Research in the Disciplines	3
NET-125	Introduction to Networks	3
NOS-220	Linux/Unix Administration I	3
SEC-110	Security Concepts	3

#### Fall Semester - Year Two

Course Code	Title	Credits
CTI-141	Cloud and Storage Concepts	3
NET-126	Switching and Routing	3
NOS-230	Windows Administration I	3
SEC-151	Introduction to Protocol Analysis	3
SEC-160	Security Administration I	3
	Total Credits	43

# Degrees

## Information Technology - Cybersecurity Coding

**Program Code**

D255901

**Degree Type**

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CIS-115	Introduction to Programming and Logic	3
CTI-110	Web, Programming, and Database Foundation	3
CTI-120	Network and Security Foundation	3
ENG-111	Writing and Inquiry	3
NOS-110	Operating Systems Concepts	3

#### Spring Semester - Year One

Course Code	Title	Credits
CSC-121	Python Programming	3
CSC-151	JAVA Programming	3
CTS-115	Information Systems Business Concepts	3
NOS-220	Linux/Unix Administration I	3
	IT Coding Elective	2-3

#### Fall Semester - Year Two

Course Code	Title	Credits
	Mathematics Electives AAS	3
DBA-120	Database Programming I	3
CSC-211	Ethical Hacking With Python I	3
	IT Coding Elective	2-3
	Total Credits	42

# Degrees

## Information Technology - Technical Support

**Program Code**

D25590F

**Degree Type**

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACA-111	College Student Success	1
CIS-110	Introduction to Computers	3
CTI-110	Web, Programming, and Database Foundation	3
CTI-120	Network and Security Foundation	3
NOS-110	Operating Systems Concepts	3
ENG-111	Writing and Inquiry	3

#### Spring Semester - Year One

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CTS-115	Information Systems Business Concepts	3
CTS-155	Tech Support Functions	3
NET-125	Introduction to Networks	3
NOS-220	Linux/Unix Administration I	3
NOS-230	Windows Administration I	3
SEC-110	Security Concepts	3

#### Fall Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CTS-120	Hardware/Software Support	3
CTS-130	Spreadsheet	3
CTI-141	Cloud and Storage Concepts	3
ENG-112	Writing and Research in the Disciplines	3
	IT Cyber Security Major Elective (Tech Support)	2
	<b>Total Credits</b>	<b>48</b>

## Mechatronics Engineering Technology

### Program Description

Craven Community College's Mechatronics Technology curriculum prepares graduates to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis, and maintenance procedures.

Students will gain knowledge and hands-on training for the in-demand field of mechatronics, which combines electronics, robotics, mechanics, instrumentation, process control, and industrial automation. Course work includes computer-aided drafting and design, applied mechanics, materials engineering, quality control, manufacturing methods and processes, computer usage, mathematics, physics, and oral and written communications. The courses will stress critical thinking, planning, and problem solving.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Upon successful completion of the Mechatronics Systems Technology program, the graduate should be able to:

- Maintain, troubleshoot, and repair industrial systems.
- Maintain a safe work environment.
- Analyze the interactions between robotic components (mechanical, electrical, and means for programming) to operate and maintain a mechanical system.

Upon completion of the program, graduates can enter the workforce as:

- Industrial Technicians
- Maintenance Technicians
- Technical service providers
- Process improvement technicians
- Engineering technicians
- Industrial technology managers

### Transfer Opportunities

While the AAS is a degree leading to immediate job placement upon graduation, Craven Community College has a special relationship for transfer to a BS degree in Industrial Technology with East Carolina University. Please check with an advisor for complete details and opportunities.

### Contact Information

**Associate Dean of Career Programs**  
252-638-7372

**Dean of Career Programs**  
252-638-4550

**Admissions Office**  
252-638-7430

# Degrees

## Mechatronics Engineering Technology

**Program Code**

A40350

**Degree Type**

Associate in Applied Science

**RECOMMENDED COURSE SEQUENCE**

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
ENG-111	Writing and Inquiry	3
ELC-131	Circuit Analysis I	4
DFT-152	CAD II	3
ISC-112	Industrial Safety	2
ATR-115	Introduction to Mechatronics	4

### Spring Semester - Year One

Course Code	Title	Credits
ATR-112	Introduction to Automation	3
ELC-135	Electrical Machines	3
ELN-133	Digital Electronics	4
ENG-112	Writing and Research in the Disciplines	3
HYD-110	Hydraulics/Pneumatics I	3

### Summer Semester - Year One

Course Code	Title	Credits
MAT-121	Algebra/Trigonometry I	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
ECO-251	Principles of Microeconomics	3

### Fall Semester - Year Two

Course Code	Title	Credits
ELC-117	Motors and Controls	4
ELC-213	Instrumentation	4
ELC-136	Electrical Machines II	4
ELN-260	Prog Logic Controllers	4

### Spring Semester - Year Two

Course Code	Title	Credits
CIS-110	Introduction to Computers	3
DFT-154	Intro to Solid Modeling	3
PHY-131	Physics-Mechanics	4
ATR-212	Industrial Robots	3
MEC-130	Mechanisms	3
	Mechatronics Elective	2
	Total Credits	76

# Degrees

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## Mechatronics Engineering Tech: Intro to Mechatronics

**Program Code**

C40350B and C40350HB

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ATR-112	Introduction to Automation	3
ATR-115	Introduction to Mechatronics	4
ELC-131	Circuit Analysis I	4
ISC-112	Industrial Safety	2
MEC-130	Mechanisms	3
	Total Credits	16

# Degrees

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## **Mechatronics Engineering Tech: Maintenance Technician**

**Program Code**

C40350A

**Degree Type**

Certificate

### **Required Courses**

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ELC-131	Circuit Analysis I	4
ELN-133	Digital Electronics	4
ELC-135	Electrical Machines	3
DFT-152	CAD II	3
HYD-110	Hydraulics/Pneumatics I	3
	<b>Total Credits</b>	<b>17</b>

# Degrees

## Mechatronics Engineering Technology

Program Code

D40350

Degree Type

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
ATR-115	Introduction to Mechatronics	4
ELC-131	Circuit Analysis I	4
ISC-112	Industrial Safety	2
MAT-121	Algebra/Trigonometry I	3

#### Spring Semester - Year One

Course Code	Title	Credits
ATR-112	Introduction to Automation	3
DFT-152	CAD II	3
ELC-135	Electrical Machines	3
PHY-131	Physics-Mechanics	4
HYD-110	Hydraulics/Pneumatics I	3

#### Summer Semester - Year One

Course Code	Title	Credits
CIS-110	Introduction to Computers	3
ENG-111	Writing and Inquiry	3

#### Fall Semester - Year Two

Course Code	Title	Credits
ELC-117	Motors and Controls	4
ELC-213	Instrumentation	4
ELN-260	Prog Logic Controllers	4
	Total Credits	48

## Medical Assisting

### Program Description

The Medical Assisting curriculum prepares students to become multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures. While the majority of medical assistants work in physicians' practices, their duties vary from office to office. In keeping with the needs of Craven County's medical community, Craven's program emphasizes clinical abilities and offers a 5-semester hour credit (SHC) practicum.

Coursework in the 44-45 SHC Diploma program and the 72-73 SHC Associate degree program includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, electronic health records, and computer operations. Students also learn to assist with examinations and treatments within the clinical setting, perform routine laboratory procedures, phlebotomy, electrocardiography, and administer medication under supervision. Focus on ethical and legal issues associated with patient care is also emphasized.

The diploma curriculum includes study in anatomy and physiology, three SHC in English and courses in PC Literacy and CPR/First Aid.

The associate degree curriculum includes study in anatomy and physiology, six SHC in English, and courses in psychology and humanities/fine arts.

Craven Community College's Medical Assisting program is accredited by the Commission on Accreditation of Allied Health Programs (CAAHEP).

### Admission Criteria

Selective admission into the D45400 (Diploma in Medical Assisting) and A45400 (Associate Degree in Medical Assisting), requires adherence to the program of study by successfully completing all courses as outlined for progression throughout the curriculum. Please refer to the Medical Assisting Handbook for admission, progression, and graduation requirements.

Admission to Craven Community College must be completed before applying for the Medical Assisting program. Admission to the Medical Assisting program requires that students be high school graduates or have recognized equivalencies. Students must have a cumulative GPA of 2.5.

- Math high school GPA must be 2.5 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for MAT 110 & BIO 163.
- English high school GPA must be 2.5 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for ENG 111.

Additional requirements for the practicum apply and students must see the Medical Assisting advisor for further details.

### Program Learning Outcomes

Graduates of this program will be able to:

- Perform administrative procedures in keeping with the ever-growing needs of the local medical community.
- Perform clinical and laboratory procedures in keeping with the ever-growing needs of the local community.
- Demonstrate competency in exam room procedures.
- Manage the economics of the medical office, incorporating supervisory experience.
- Take the CMA, RMA, or CCMA certification exams

### Career Opportunities

Employment opportunities are available in

# Degrees

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- physicians' offices
- health maintenance organizations
- health departments
- research facilities

## Contact Information

Medical Assisting Program Director  
252-638-1031

Health Programs Admission & Advising Coordinator  
(252) 639-2025  
[healthcare@cravencc.edu](mailto:healthcare@cravencc.edu)

## Medical Assisting

Program Code

A45400

Degree Type

Associate in Applied Science

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary

### STANDARD COURSE SEQUENCE

#### Fall Semester – Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-163	Basic Anatomy & Physiology	5
MAT-110	Mathematical Measurement and Literacy	3
MED-110	Orientation to Medical Assisting	1
MED-121	Medical Terminology I	3
MED-130	Administrative Office Procedures I	2
MED-131	Administrative Office Procedures II	2

#### Spring Semester – Year One

Course Code	Title	Credits
	MED-118 or OST-149	2-3
MED-122	Medical Terminology II	3
MED-140	Examining Room Procedures I	5
MED-150	Laboratory Procedures I	5
MED-272	Drug Therapy	3

#### Summer Semester – Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
MED-260	MED Clinical Practicum	5
MED-262	Clinical Perspectives	1

# Degrees

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## Fall Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ENG-112	Writing and Research in the Disciplines	3
PSY-150	General Psychology	3
CIS-110	Introduction to Computers	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
	MED-274 or BIO-155	3

## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
MED-134	Medical Transcription	3
MED-232	Medical Insurance Coding	2
MED-270	Symptomatology	3
MED-276	Patient Education	2
OST-280	Electronic Health Records	3
	Total Credits	72-73

# Degrees

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## Medical Assisting: Certificate

**Program Code**

C45400A and C45400HA

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
BIO-163	Basic Anatomy & Physiology	5
MED-110	Orientation to Medical Assisting	1
MED-118	Medical Law and Ethics	2
MED-121	Medical Terminology I	3
MED-122	Medical Terminology II	3
	Total Credits	14

# Degrees

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## Medical Assisting: Medical Scribe

**Program Code**

C45400

**Degree Type**

Certificate

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All Prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
MED-121	Medical Terminology I	3
MED-122	Medical Terminology II	3
MED-134	Medical Transcription	3
OST-280	Electronic Health Records	3

*\*This certificate program is only available to currently certified Medical Assistants who have at least a Diploma in Medical Assisting.*

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Total Credits	12
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# Degrees

## Medical Assisting

**Program Code**

D45400

**Degree Type**

Diploma

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

**STANDARD COURSE SEQUENCE**

### Fall Semester – Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-163	Basic Anatomy & Physiology	5
MAT-110	Mathematical Measurement and Literacy	3
MED-110	Orientation to Medical Assisting	1
MED-121	Medical Terminology I	3
MED-130	Administrative Office Procedures I	2
MED-131	Administrative Office Procedures II	2

### Spring Semester – Year One

Course Code	Title	Credits
	MED-118 or OST-149	2-3
MED-122	Medical Terminology II	3
MED-140	Examining Room Procedures I	5
MED-150	Laboratory Procedures I	5
MED-272	Drug Therapy	3

### Summer Semester – Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
MED-260	MED Clinical Practicum	5
MED-262	Clinical Perspectives	1
	Total Credits	44-45

## Medical Office Administration

### Program Description

Craven's Medical Office Administration curriculum prepares individuals for employment in medical and other healthcare related offices. Emphasis is placed on developing office skills and knowledge of medical terms.

Medical Office Administration students may earn associate in applied science degrees in two core areas (General Office and Medical Billing and Coding). Depending on the specialty path selected, coursework includes medical terminology; information systems; office management; medical coding; billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn to provide office support to medical facilities including records management, medical report production, patient interface, insurance and billing responsibilities, telephone interaction, and confidentiality

The curriculum includes study in written communications, psychology, and humanities/fine arts.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate ethical behavior and interpersonal skills needed to function in a diverse medical office environment.
- Produce and organize a variety of business and medical documents following current healthcare standards.
- Demonstrate competency in the use of medical-specific software.
- Produce accurate documentation for outpatient medical diagnoses and procedures.

### Career Opportunities

Employment opportunities include:

- medical offices
- dental offices
- hospitals
- insurance companies
- laboratories
- medical supply companies
- other healthcare related organizations.

### Contact Information

**MOA Program Director**  
252-638-1367

**Health Programs Admission & Advising Coordinator**  
(252) 639-2025  
[healthcare@cravencc.edu](mailto:healthcare@cravencc.edu)

### Medical Office Administration - General

**Program Code**  
A25310G

# Degrees

## Degree Type

Associate in Applied Science

The following plan of study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This Plan of Study is subject to change when the college thinks such action is in the best interest of the student or the Program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions Office to determine if readmission is necessary. \*\*Due to industry changes, course content is updated periodically to ensure graduates have current knowledge. It is possible a student may complete or transfer in a course with outdated content for various reasons, and thus be required to complete the revised course to graduate. At the time of this catalog revision these course(s) are: OST-248 Diagnostic Coding; OST-264 Medical Auditing.

## STANDARD COURSE SEQUENCE

### Fall Semester – Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-163	Basic Anatomy & Physiology	5
MED-121	Medical Terminology I	3
OST-148	Medical Insurance and Billing	3
OST-149	Medical Legal Issues	3

### Spring Semester – Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
CIS-110	Introduction to Computers	3
MED-122	Medical Terminology II	3
OST-131	Keyboarding	2
OST-161	Medical Office Procedures	3

### Summer Semester – Year One

Course Code	Title	Credits
	ENG-112 or ENG-114	3
PSY-150	General Psychology	3
	Humanities/Fine Arts Elective AAS (3 credits)	3

### Fall Semester - Year Two

Course Code	Title	Credits
OST-122	Office Computations	3
OST-134	Text Entry & Formatting	3
OST-164	Office Editing	3
OST-184	Records Management	3
OST-243	Medical Office Simulation	3

# Degrees

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## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
OST-136	Word Processing	3
OST-241	Medical Office Transcription I	3
OST-263	Healthcare Customer Relations	3
OST-280	Electronic Health Records	3
OST-281	Emerg Issues in Med Ofc	3
	Total Credits	68

# Degrees

## Medical Office Administration - Medical Billing & Coding

**Program Code**

A25310F

**Degree Type**

Associate in Applied Science

The following plan of study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This Plan of Study is subject to change when the college thinks such action is in the best interest of the student or the Program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions Office to determine if readmission is necessary. \*\*Due to industry changes, course content is updated periodically to

ensure graduates have current knowledge. It is possible a student may complete or transfer in a course with outdated content for various reasons, and thus be required to complete the revised course to graduate. At the time of this catalog revision these course(s) are: OST-248 Diagnostic Coding; OST-264 Medical Auditing.

### STANDARD COURSE SEQUENCE

#### Fall Semester – Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-163	Basic Anatomy & Physiology	5
MED-121	Medical Terminology I	3
OST-148	Medical Insurance and Billing	3
OST-149	Medical Legal Issues	3

#### Spring Semester – Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
CIS-110	Introduction to Computers	3
MED-122	Medical Terminology II	3
OST-161	Medical Office Procedures	3
OST-263	Healthcare Customer Relations	3

#### Summer Semester – Year One

Course Code	Title	Credits
	ENG-112 or ENG-114	3
PSY-150	General Psychology	3
	Humanities/Fine Arts Elective AAS (3 credits)	3

#### Fall Semester - Year Two

Course Code	Title	Credits
OST-164	Office Editing	3
OST-184	Records Management	3
OST-243	Medical Office Simulation	3
OST-247	Procedure Coding	3
OST-248	Diagnostic Coding	3

# Degrees

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## Spring Semester - Year Two

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
OST-136	Word Processing	3
OST-241	Medical Office Transcription I	3
OST-249	Medical Coding Certification Preparation	3
OST-264	Medical Auditing	3
OST-280	Electronic Health Records	3
	Total Credits	69

# Degrees

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## Medical Office Administration - Billing and Coding

**Program Code**

C25310F

**Degree Type**

Certificate

The following plan of study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This Plan of Study is subject to change when the college thinks such action is in the best interest of the student or the Program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

\*\*Due to industry changes, course content is updated periodically to ensure graduates have current knowledge. It is possible a student may complete or transfer in a course with outdated content for various reasons, and thus be required to complete the revised course to graduate. At the time of this catalog revision these course(s) are: OST-248 Diagnostic Coding; OST-264 Medical Auditing.

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
MED-121	Medical Terminology I	3
OST-148	Medical Insurance and Billing	3
OST-161	Medical Office Procedures	3
OST-247	Procedure Coding	3
OST-248	Diagnostic Coding	3
	<b>Total Credits</b>	<b>15</b>

# Degrees

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## Medical Office Administration - General

**Program Code**

C25310G and C25310HG

**Degree Type**

Certificate

The following plan of study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This Plan of Study is subject to change when the college thinks such action is in the best interest of the student or the Program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions Office to determine if readmission is necessary.

\*\*Due to industry changes, course content is updated periodically to ensure graduates have current knowledge. It is possible a student may complete or transfer in a course with outdated content for various reasons, and thus be required to complete the revised course to graduate. At the time of this catalog revision these course(s) are: OST-248 Diagnostic Coding; OST-264 Medical Auditing.

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CIS-110	Introduction to Computers	3
MED-121	Medical Terminology I	3
OST-148	Medical Insurance and Billing	3
OST-161	Medical Office Procedures	3
OST-131	Keyboarding	2
	Total Credits	14

# Degrees

## Medical Office Administration - General

**Program Code**

D25310G

**Degree Type**

Diploma

The following plan of study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This Plan of Study is subject to change when the college thinks such action is in the best interest of the student or the Program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

\*\*Due to industry changes, course content is updated periodically to ensure graduates have current knowledge. It is possible a student may complete or transfer in a course with outdated content for various reasons, and thus be required to complete the revised course to graduate. At the time of this catalog revision these course(s) are: OST-248 Diagnostic coding; OST-264 Medical Auditing.

### STANDARD COURSE SEQUENCE

#### Fall Semester – Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-163	Basic Anatomy & Physiology	5
MED-121	Medical Terminology I	3
OST-148	Medical Insurance and Billing	3
OST-149	Medical Legal Issues	3

#### Spring Semester – Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
CIS-110	Introduction to Computers	3
MED-122	Medical Terminology II	3
OST-131	Keyboarding	2
OST-161	Medical Office Procedures	3

#### Fall Semester - Year Two

Course Code	Title	Credits
OST-122	Office Computations	3
OST-134	Text Entry & Formatting	3
OST-164	Office Editing	3
OST-184	Records Management	3
OST-243	Medical Office Simulation	3
	Total Credits	44

# Degrees

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## N.C. Division of Child Development and Early Education Credential Certification Options

Students must [apply to NCDCE](#) for their credentials upon completion of coursework. Choose “Forms for Child Care Centers” and scroll to the appropriate “Education and Equivalency Form.” Original transcripts must be sent to NCDCE, either directly from Craven Community College, or in a sealed envelope accompanying the student’s completed credentials application.

### NC-DCE Child Care Administrator

Degree Type  
Credential

#### Required Courses

Course Code	Title	Credits
EDU-261	Early Childhood Administration I	3
EDU-262	Early Childhood Administration II	3
	Total Credits	6

# Degrees

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## NC-DCD Early Childhood Credential

Degree Type  
Credential

### Required Courses

Course Code	Title	Credits
EDU-119	Intro to Early Childhood Education	4
	Total Credits	4

# Degrees

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## NC-DCD School-Age Child Care Credential

Degree Type  
Credential

### Required Courses

Course Code	Title	Credits
EDU-145	Child Development II	3
EDU-235	School-Age Development and Programs	3
	Total Credits	6

## Nursing

### Program Description

The Associate Degree Nursing curriculum provides knowledge, skills, and abilities 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.

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

The Associate Degree in Nursing program at Craven Community College is accredited by the National League for Nursing Commission for Nursing Education Accreditation (NLN CNEA), located at 2600 Virginia Avenue, NW, Washington, DC 20037, 202-909-2487.

This program is approved by the NC Board of Nursing (NCBON) and graduates 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.

### Admission Criteria –2023 Fall Admission

Nursing is a selective admission program. Selective admission into A45110 (Associate in Applied Science, Nursing) or D45660 (Practical Nursing), requires adherence to the program of study by successfully completing all courses as outlined for progression throughout the curriculum. Please refer to the Nursing Handbook for admission, progression, and graduation requirements. See the “Admissions” and “Tuition” sections of this Catalog regarding general college admission procedures and fees. Also, in the Admissions section, see the heading titled “Limited Admission Programs: Health Programs” for information about deadlines and processes for admission. The following are a few special requirements for entry to the nursing program:

- Math high school GPA must be 2.8 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for MAT 110 & BIO 168.
- English high school GPA must be 2.8 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for ENG 111.
- Students are encouraged to complete general college courses prior to entering the nursing program. For all required support courses (general education) within the Nursing curriculum, a minimum of a “C” must be obtained in order to progress through the Nursing program. NUR courses have a minimum requirement of “B.”
- Student must have an overall GPA of at least 2.5. GPA is not rounded.
- Student must be a graduate of an accredited/registered high school or a recognized equivalency such as a GED diploma.
- All applicants must currently be listed on the NC registry as a CNAI.
- Advanced standing (transition) students who have an LPN license in North Carolina, successfully complete NUR 214, and meet all admission criteria will have NUR 111, NUR 112 and NUR 114 waived. Upon successful completion of NUR 214, transition students are enrolled in the 3<sup>rd</sup> semester of the ADN program.
- Physical examinations, immunizations and background checks are digitally managed with an online service. After a student is accepted into the nursing program, they will be provided with directions on how to access this service and will be responsible for any costs associated.
- The physical examination must be completed within 12 months prior to enrollment utilizing the form provided by the online service.
- Immunizations are required of all nursing students in order to be in compliance with clinical sites utilized during the program. Students with current medical conditions that certain immunizations may be contraindicated, should consult with their healthcare provider and provide appropriate documentation for consideration by the clinical site(s).
- Prior to the student’s participation in the clinical component of the nursing programs, the clinical sites require drug testing. Students are also required to have a statewide criminal background check for the past seven years

# Degrees

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and a national sex offender database search. The clinical sites have the right to deny student access based on criminal background check results. This denial would result in the student's inability to successfully complete the program. Inability to complete the clinical portion of a course will prevent the student from progressing within the program.

Students who:

- Present physical or emotional problems which conflict with the safety essential to nursing practice and do not respond to treatment or counseling within a time frame that enables meeting program objectives; or
- Demonstrate behavior which conflicts with the safety essential to nursing practice; or
- Fail to demonstrate professional behavior, including honesty, integrity, and appropriate use of social media, while in the nursing program of study;

will be removed from direct patient care and will be scheduled for a conference with a faculty member and the Director of Nursing Programs. The consequence will be determined by the severity of the lack of adherence to nursing standards as determined by the faculty and the Director of Nursing Programs. Any of the above infractions may be grounds for dismissal from the nursing program. If dismissed, the student will receive a grade of "D" for the course in which they are enrolled, and will be ineligible for re-entry into the nursing programs.

## Program Learning Outcomes

Graduates of this program will be able to:

- Practice professional nursing behavior incorporating personal responsibility and accountability for continued competence.
- Communicate professionally and effectively with individuals, significant support person(s), and members of the interdisciplinary health care team.
- Integrate knowledge of holistic needs of individuals to provide individualized assessments.
- Incorporate informatics to mitigate error and formulate evidence-based clinical judgments and management decisions.
- Implement safe, caring interventions incorporating documented best practices for individuals in diverse settings.
- Develop a teaching plan for individuals and/or the nursing team, incorporating teaching and learning principles.
- Collaborate with the interdisciplinary health care team to advocate for positive individualized and organizational outcomes using knowledge, skills, and attitudes for continuous improvement and quality.
- Manage health care for the individual using cost effective nursing strategies, critical thinking skills, nursing and quality improvement processes, and current technologies.
- Evaluate nursing interventions and strategies, quality improvement processes, and technologies to ensure positive individual and organizational outcomes.
- Take and pass the NCLEX-RN exam.

## Career Opportunities

Employment opportunities include:

- hospitals
- long-term care facilities
- clinics
- physicians' offices
- industry
- community agencies.

## Transfer Opportunities

The Associate in Applied Science in Nursing is a degree leading to immediate job placement upon graduation. Students who complete their AAS degree at Craven Community College may transfer and complete their Bachelor of Science in Nursing degree at a university.

# Degrees

## Contact Information

Director of Nursing Programs  
252-638-7346

Health Programs Admission & Advising Coordinator  
(252) 639-2025  
healthcare@cravencc.edu

Admissions Office  
252-639-7430

## Associate Degree Nursing (Fall & Spring Cohort)

### Program Code

A45110

### Degree Type

Associate in Applied Science

The following Plan of Study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate, the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.5 overall grade point average. This Plan of Study is subject to change when the college determines such action is in the best interest of the student or the Program. It is the responsibility of the student to meet the requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions Office to determine if readmission is necessary.

### RECOMMENDED COURSE SEQUENCE

*Notes for NUR courses indicate the breakdown of hours in this order: lecture, lab, clinical, contact (eg. 4/6/6/16)*

## Fall Program Cohort

The Fall cohort starts in August, completes the curriculum in five semesters, and finishes in May.

### Fall Cohort - Year One Fall

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-168	Anatomy and Physiology I	4
ENG-111	Writing and Inquiry	3
PSY-150	General Psychology	3
NUR-111	Introduction to Health Concepts	8

### Fall Cohort - Year One Spring

Course Code	Title	Credits
BIO-169	Anatomy and Physiology II	4
PSY-241	Developmental Psychology	3
NUR-112	Health-Illness Concepts	5
NUR-114	Holistic Health Concepts	5

### Fall Cohort - Year One Summer

Course Code	Title	Credits
NUR-212	Health System Concepts	5

# Degrees

## Fall Cohort - Year Two Fall

Course Code	Title	Credits
	ENG-112 or ENG-114	3
NUR-113	Family Health Concepts	5
NUR-211	Health Care Concepts	5

## Fall Cohort - Year Two Spring

Course Code	Title	Credits
	Humanities/Fine Arts Elective AAS (3 credits)	3
NUR-213	Complex Health Concepts	10

## Spring Program Cohort

The Spring cohort starts in January, completes the curriculum in six semesters, and finishes in December.

## Spring Cohort - Year One Spring

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-168	Anatomy and Physiology I	4
ENG-111	Writing and Inquiry	3
PSY-150	General Psychology	3
NUR-111	Introduction to Health Concepts	8

## Spring Cohort - Year One Summer

Course Code	Title	Credits
	ENG-112 or ENG-114	3
	Humanities/Fine Arts Elective AAS (3 credits)	3

## Spring Cohort - Year One Fall

Course Code	Title	Credits
BIO-169	Anatomy and Physiology II	4
PSY-241	Developmental Psychology	3
NUR-112	Health-Illness Concepts	5
NUR-114	Holistic Health Concepts	5

## Spring Cohort - Year Two Spring

Course Code	Title	Credits
NUR-113	Family Health Concepts	5
NUR-211	Health Care Concepts	5

## Spring Cohort - Year Two Summer

Course Code	Title	Credits
NUR-212	Health System Concepts	5

## Spring Cohort - Year Two Fall

Course Code	Title	Credits
NUR-213	Complex Health Concepts	10

# Degrees

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## Acceptable Humanities/Fine Arts Electives

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ART-111	Art Appreciation	3
ART-114	Art History Survey I	3
ART-115	Art History Survey II	3
HUM-115	Critical Thinking	3
MUS-110	Music Appreciation	3
MUS-112	Introduction to Jazz	3
PHI-215	Philosophical Issues	3
PHI-240	Introduction to Ethics	3
	<b>Total Credits</b>	<b>67</b>

# Degrees

## Associate Degree Nursing - Spring Cohort

### Program Code

A45110

### Degree Type

Associate in Applied Science

The following Plan of Study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate, the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.5 overall grade point average. This Plan of Study is subject to change when the college determines such action is in the best interest of the student or the Program. It is the responsibility of the student to meet the requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions Office to determine if readmission is necessary.

### RECOMMENDED COURSE SEQUENCE

Notes for some classes indicate breakdown of hours in this order: lecture, lab, clinical, contact (eg. 1/0/0/1)

### Spring Semester - Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-168	Anatomy and Physiology I	4
ENG-111	Writing and Inquiry	3
PSY-150	General Psychology	3
NUR-111	Introduction to Health Concepts	8

### Summer Semester - Year One

Course Code	Title	Credits
	ENG-112 or ENG-114	3
	Humanities/Fine Arts Elective AAS (3 credits)	3

### Fall Semester - Year One

Course Code	Title	Credits
BIO-169	Anatomy and Physiology II	4
PSY-241	Developmental Psychology	3
NUR-112	Health-Illness Concepts	5
NUR-114	Holistic Health Concepts	5

### Spring Semester - Year Two

Course Code	Title	Credits
NUR-113	Family Health Concepts	5
NUR-211	Health Care Concepts	5

### Summer Semester - Year Two

Course Code	Title	Credits
NUR-212	Health System Concepts	5

### Fall Semester - Year Two

Course Code	Title	Credits
NUR-213	Complex Health Concepts	10

# Degrees

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## Acceptable Humanities/Fine Arts Electives

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ART-111	Art Appreciation	3
ART-114	Art History Survey I	3
ART-115	Art History Survey II	3
HUM-115	Critical Thinking	3
MUS-110	Music Appreciation	3
MUS-112	Introduction to Jazz	3
PHI-215	Philosophical Issues	3
PHI-240	Introduction to Ethics	3
	<b>Total Credits</b>	<b>67</b>

# Degrees

## LPN to ADN Transition Program

### Program Code

A45110

### Degree Type

Associate in Applied Science

### RECOMMENDED COURSE SEQUENCE

## Fall Program Start

### Fall Semester - Term 1

*\*after earning a minimum of a B in NUR 214, a student is qualified to join the ADN program, and NUR 111, NUR 112, NUR 114 are waived.*

Course Code	Title	Credits
BIO-169	Anatomy and Physiology II	4
PSY-241	Developmental Psychology	3
NUR-214	Nsg Transition Concepts	4

### Spring Semester - Term 2

Course Code	Title	Credits
	ENG-112 or ENG-114	3
NUR-113	Family Health Concepts	5
NUR-211	Health Care Concepts	5

### Summer Semester - Term 3

Course Code	Title	Credits
NUR-212	Health System Concepts	5

### Fall Semester - Term 4

Course Code	Title	Credits
	Humanities/Fine Arts Elective AAS (3 credits)	3
NUR-213	Complex Health Concepts	10

## Spring Program Start

### Spring Semester - Term 1

*\*after earning a minimum of a B in NUR 214, a student is qualified to join the ADN program, and NUR 111, NUR 112, NUR 114 are waived.*

Course Code	Title	Credits
BIO-169	Anatomy and Physiology II	4
PSY-241	Developmental Psychology	3
NUR-214	Nsg Transition Concepts	4

### Summer Semester - Term 2

Course Code	Title	Credits
NUR-212	Health System Concepts	5

# Degrees

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## Fall Semester - Term 3

Course Code	Title	Credits
	ENG-112 or ENG-114	3
NUR-113	Family Health Concepts	5
NUR-211	Health Care Concepts	5

## Spring Semester - Term 4

Course Code	Title	Credits
	Humanities/Fine Arts Elective AAS (3 credits)	3
NUR-213	Complex Health Concepts	10

## Total Credits for Transition Program - 42

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	Total Credits	67
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# Degrees

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## Nursing College Transfer Pathway

**Program Code**

P1032C

**Degree Type**

Certificate

If you are a high school junior or senior planning to attend a community college transfer program or a four-year college, this pathway will allow you to complete some of the core general education classes required during the first two years of a four-year degree.

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACA-122	College Transfer Success	1
BIO-168	Anatomy and Physiology I	4
BIO-169	Anatomy and Physiology II	4
ENG-111	Writing and Inquiry	3
	ENG-112 or ENG-114	3
	Humanities/Fine Arts Elective AAS (3 credits)	3
PSY-150	General Psychology	3
PSY-241	Developmental Psychology	3
	<b>Total Credits</b>	<b>24</b>

## Physical Therapist Assistant

### Program Description

A Physical Therapist Assistant (PTA) is a healthcare provider working under the direction of a Physical Therapist. The PTA is involved in the treatment of individuals with muscular, skeletal, cardiopulmonary, and nervous system disorders. The PTA may also be involved in injury prevention or programs specifically targeted toward individual or group wellness. The PTA is able to provide physical therapy services as specified in a care plan developed by a Physical Therapist. Treatment program implementation may include therapeutic exercise, ambulation training, activities of daily living, and administration of physical agents such as heat and cold.

Craven Community College's Physical Therapist Assistant program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE).

### Program Learning Outcomes

Graduates of this program will be able to:

- Provide intervention established by the PT in a safe manner, minimizing risk to patients, self and others.
- Provide appropriate instruction to patients, family, caregivers, and other professionals to achieve patient goals and outcomes as described in the plan of care by the PT.
- Develop a plan for continuing education and/or career development that incorporates evidence-based practice.
- Demonstrate the ability to meet the entry-level job responsibilities of a PTA which includes: academic and clinical preparedness; punctuality; following PT directives; and ensuring safety, privacy and confidentiality of patients.

### Admission Criteria

Physical Therapist Assisting is a selective admission program. To be eligible for admission, students must:

- Submit a Physical Therapist Assisting Application by the designated deadline;
- Math high school GPA must be 2.8 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for MAT 110 & BIO 168.
- English high school GPA must be 2.8 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for ENG 111.
- Have completed a high school or college/university level chemistry class with a grade of "C" or better;
- Have a cumulative GPA of 2.5 or higher. If you have completed a minimum of 12 semester hours with Craven CC, and have not attended another college/university since completing those hours, we will use the Craven CC GPA. If you have attended multiple colleges/universities, and have less than 12 semester hours at Craven CC, we will combine all GPAs to determine your current GPA. If you have less than 12 semester hours of college work, we will use your high school GPA which must be 2.5 or higher. If you completed a GED, and have less than 12 semester hours of college work, you must have scored 145 or higher;
- Take the TEAS (Test of Essential Academic Skills) admission exam;
- Complete required unpaid observation hours in the discipline.

Selective admission into A45620 (Associate in Applied Science, Physical Therapist Assistant) requires adherence to the program of study by successfully completing all courses as outlined for progression throughout the curriculum. Please refer to the PTA Program Handbook and Policy and Procedure Manual for admission, progression, and graduation requirements.

### Career Opportunities

- Hospitals
- Clinics
- Home Health Care Agencies
- Nursing Homes

# Degrees

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- Private Practice
- Schools

## Contact Information

**PTA Program Director**  
252-638-7341

**Health Programs Admission & Advising Coordinator**  
(252) 639-2025  
[healthcare@cravencc.edu](mailto:healthcare@cravencc.edu)

**Admissions Office**  
252-639-7430

## Physical Therapist Assistant

**Program Code**  
A45620

**Degree Type**  
Associate in Applied Science

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

### STANDARD COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
	ACA-111 or ACA-122	1
BIO-168	Anatomy and Physiology I	4
ENG-111	Writing and Inquiry	3
MAT-110	Mathematical Measurement and Literacy	3
PTA-110	Intro to Physical Therapy	3
PTA-130	Physical Therapy Procedures I	3
PTA-212	Health Care/Resources	2

#### Spring Semester - Year One

Course Code	Title	Credits
BIO-169	Anatomy and Physiology II	4
	COM-120 or COM-231	3
PTA-120	Functional Anatomy	3
PTA-140	Therapeutic Exercise	4
PTA-150	Physical Therapy Procedures II	3

# Degrees

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## Summer Semester - Year One

Course Code	Title	Credits
PSY-150	General Psychology	3
PTA-170	Pathophysiology	3
PTA-222	Professional Interactions	2

## Fall Semester - Year Two

Course Code	Title	Credits
	HUM-115 or PHI-240	3
PTA-160	Physical Therapy Procedures III	3
PTA-180	PTA Clinical Ed Intro	3
PTA-240	Physical Therapy Procedures IV	5

## Spring Semester - Year Two

Course Code	Title	Credits
PTA-260	Adv. Pta Clinical Ed.	10
PTA-270	PTA Topics	1
	Total Credits	69

## Practical Nursing

### Program Description

The Practical Nursing curriculum is Craven Community College's oldest program. It prepares individuals with the knowledge and skills to provide nursing care to children and adults and to become Licensed Practical Nurses (LPNs).

The graduate of the Practical Nursing program at Craven Community College is prepared to practice as an entry-level nurse. The practice of the Licensed Practical Nurse (LPN) is directed towards meeting the healthcare needs of individuals throughout their lifespan. Their role is supported by evidence-based clinical practice with the provision of care for individuals and families in structured settings. The LPN functions in a dependent role under the supervision of the registered nurse (RN) and/or other healthcare providers approved by North Carolina law.

The Practical Nursing program at Craven Community College is accredited by the National League for Nursing Commission for Nursing Education Accreditation (NLN CNEA), located at 2600 Virginia Avenue, NW, Washington, DC 20037, 202-909-2487.

This program is approved by the NC Board of Nursing (NCBON) and graduates are eligible to apply to take the National Council Licensure Examination (NCLEX-PN), which is required for practice as a Licensed Practical Nurse.

### Admission Criteria – 2023 Fall Admission

Nursing is a selective admission program. See the "Admissions" and "Tuition" sections of this Catalog regarding general college admission procedures and fees. Also, in the Admissions section, see the heading titled "Limited Admission Programs: Health Programs" for information about deadlines and processes for admission. The following are a few special requirements for entry to the nursing program:

- Math high school GPA must be 2.8 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for MAT 110 & BIO 168.
- English high school GPA must be 2.8 or higher within 10 years of enrollment at Craven CC or complete all developmental requisites to be eligible for ENG 111.
- Physical examinations, immunizations and background checks are digitally managed with an online service. After a student is accepted into the nursing program, they will be provided with directions on how to access this service and will be responsible for any costs associated.
- The physical examination must be completed within 12 months prior to enrollment utilizing the form provided by the online service.
- Immunizations are required of all nursing students in order to be in compliance with clinical sites utilized during the program. Students with current medical conditions that certain immunizations may be contraindicated, should consult with their health care provider and provide appropriate documentation for consideration by the clinical site(s).
- Prior to the student's participation in the clinical component of the nursing programs, the clinical sites require drug testing. Students are also required to have a statewide criminal background check for the past seven years and a national sex offender database search. The clinical sites have the right to deny student access based on criminal background check results. This denial would result in the student's inability to successfully complete the program. Inability to complete the clinical portion of a course will prevent the student from progressing within the program.
- Student must have an overall GPA of at least 2.5. GPA is not rounded.
- Student must be a graduate of an accredited/registered high school or a recognized equivalency, such as a GED diploma.
- All applicants must currently be listed on the NC registry as a CNAI.

Students who:

- Present physical or emotional problems which conflict with the safety essential to nursing practice and do not respond to treatment or counseling within a time frame that enables meeting program objectives; or
- Demonstrate behavior which conflicts with the safety essential to nursing practice; or

# Degrees

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- Fail to demonstrate professional behavior, including honesty, integrity, and appropriate use of social media, while in the nursing program of study;

will be removed from direct patient care and will be scheduled for a conference with the faculty member and the Director of Nursing. The consequence will be determined by the severity of the lack of adherence to nursing standards as determined by the faculty and the Director of Nursing. Any of the above infractions may be grounds for dismissal from the nursing program. If dismissed, the student will receive a grade of "D" for the course in which they are enrolled, and will be ineligible for re-entry into the nursing programs.

## Program Learning Outcomes

Graduates of this program will be able to:

- Practice professional nursing behaviors, within the ethical-legal practice boundaries of the LPN, incorporating person responsibility and accountability for continued competence.
- Participate in providing evidence-based nursing care, from an established plan of care, based on biophysical, psychosocial and cultural needs of clients in various stages of growth and development while assisting them to attain their highest level of wellness.
- Utilize nursing judgement while participating in the nursing process to provide individualized, safe and effective nursing care in a structured setting under supervision.
- Reinforce and/or implement the teaching plan developed and delegated by the registered nurse to promote the health of individuals, incorporating teaching and learning principles.
- Utilize informatics to access, manage and communicate client information.
- Demonstrate a spirit of inquiry by participating in the evaluation of the concepts of the holistic individual and client response in the promotion of health, wellness, illness, quality of life and the achievement of potential.
- Participate in Quality Improvement (QI) by identifying hazards and errors and by suggesting, to the registered nurse, changes to improve the client care process.
- Participate in collaboration with interdisciplinary healthcare team, as assigned by the registered nurse, to support positive individual and organizational outcomes in a safe and cost-effective manner.
- Demonstrate caring behaviors in implementing culturally-competent, client-centered nursing care to diverse clients across the lifespan.
- Take and pass the NCLEX-PN exam.

## Career Opportunities

Employment opportunities include:

- hospitals
- rehabilitation/long-term care facilities
- home health agencies
- clinics
- physicians' offices

## Additional Education Opportunities

Advanced standing (transition) students will have NUR 111, NUR 112 and NUR 114 waived if they have their LPN license and have successfully completed NUR 214 as part of the admission criteria. Upon successful completion of NUR 214, transition students are enrolled in the third semester of the Associate Degree Nursing program. Admission criteria must be met.

## Contact Information

**Director of Nursing**  
252-638-7346

**Health Programs Admission & Advising Coordinator**  
(252) 639-2025  
[healthcare@cravencc.edu](mailto:healthcare@cravencc.edu)

# Degrees

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Admissions Office  
252-639-7430

## Practical Nursing - Day

**Program Code**

D45660

**Degree Type**

Diploma

The following Plan of Study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate, the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.5 overall grade point average. This Plan of Study is subject to change when the college determines such action is in the best interest of the student or the Program. It is the responsibility of the student to meet the requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions Office to determine if readmission is necessary.

### RECOMMENDED COURSE SEQUENCE

Notes for NUR classes indicate the breakdown of hours in this order: lecture, lab, clinical, contact (eg. 7/6/6/19)

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
BIO-163	Basic Anatomy & Physiology	5
PSY-150	General Psychology	3
NUR-101	Practical Nursing I	11

### Spring Semester - Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
PSY-241	Developmental Psychology	3
NUR-102	Practical Nursing II	10

### Summer Semester - Year One

Course Code	Title	Credits
NUR-103	Practical Nursing III	9
	Total Credits	45

# Degrees

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## Practical Nursing - Evening

**Program Code**

D45660

**Degree Type**

Diploma

The following Plan of Study is the standard curriculum for the above Program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate, the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.5 overall grade point average. This Plan of Study is subject to change when the college determines such action is in the best interest of the student or the Program. It is the responsibility of the student to meet the requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions Office to determine if readmission is necessary.

**RECOMMENDED COURSE SEQUENCE**

Notes for NUR classes indicate the breakdown of hours in this order: lecture, lab, clinical, contact (eg. 7/6/6/19)

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
BIO-163	Basic Anatomy & Physiology	5
NUR-101AB	Practical Nursing I	7

### Spring Semester - Year One

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
PSY-150	General Psychology	3
NUR-101BB	Practical Nursing I	4
NUR-102AB	Practical Nursing II	5

### Summer Semester - Year One

Course Code	Title	Credits
PSY-241	Developmental Psychology	3
NUR-102BB	Practical Nursing II	5

### Fall Semester - Year Two

Course Code	Title	Credits
NUR-103	Practical Nursing III	9
	Total Credits	45

## Welding Technology

### Program Description

Craven's Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry. Welding is the most common way of permanently joining metal parts. In this process, heat is applied to metal pieces, melting and fusing them to form a permanent bond.

The welding curriculum teaches students shielded metal arc, Tungsten Inert Gas (TIG), and Metal Inert Gas (MIG) welding. Instruction in this 72 SHC program includes consumable and

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

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

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate proficiency in maintaining and meeting safety protocols in accordance with industry standards while working in the welding, cutting and fabrication fields of study.
- Demonstrate proficiency with identification, set-up, and operation of industry standard equipment.
- Demonstrate proficiency in the cutting and joining of metals using a variety of welding processes and various positions such as overhead, circular, grooved, etc.
- Demonstrate proficiency with regard to reading and interpreting mechanical drawings, welding symbols, and fabrication requirements.

### Career Opportunities

Graduates may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in:

- construction
- manufacturing
- fabrication
- sales
- quality control
- supervision
- welding-related self-employment.

### Contact Information

**Associate Dean of Career Programs**  
252-638-7372

**Dean of Career Programs**  
252-638-4550

**Admissions Office**  
252-638-7430

# Degrees

## Welding Technology

**Program Code**

A50420

**Degree Type**

Associate in Applied Science

**RECOMMENDED COURSE SEQUENCE**

### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CIS-113	Computer Basics	1
ISC-112	Industrial Safety	2
WLD-110	Cutting Processes	2
WLD-115	SMAW (Stick) Plate	5
WLD-121	GMAW (MIG) FCAW/Plate	4

### Spring Semester - Year One

Course Code	Title	Credits
MAT-110	Mathematical Measurement and Literacy	3
ECO-251	Principles of Microeconomics	3
WLD-122	GMAW (MIG) Plate/Pipe	3
WLD-131	GTAW (TIG) Plate	4
WLD-141	Symbols and Specifications	3

### Summer Semester – Year One

Course Code	Title	Credits
MEC-111	Machine Processes I	3
WLD-132	GTAW (TIG) Plate/Pipe	3

### Fall Semester - Year Two

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
DFT-152	CAD II	3
WLD-116	SMAW (stick) Plate/Pipe	4
WLD-151	Fabrication I	4
	Humanities/Fine Arts Elective AAS (3 credits)	3

### Spring Semester - Year Two

Course Code	Title	Credits
ENG-112	Writing and Research in the Disciplines	3
WLD-215	SMAW (stick) Pipe	4
WLD-231	GTAW (TIG) Pipe	3
WLD-251	Fabrication II	3
WLD-261	Certification Practices	2
	Total Credits	69

# Degrees

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## Welding Technology - Advanced Pipe Level IV

**Program Code**

C50420G

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
WLD-116	SMAW (stick) Plate/Pipe	4
WLD-122	GMAW (MIG) Plate/Pipe	3
WLD-132	GTAW (TIG) Plate/Pipe	3
WLD-141	Symbols and Specifications	3
WLD-231	GTAW (TIG) Pipe	3
	Total Credits	16

# Degrees

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## Welding Technology - Entry Level Welding

**Program Code**

C50420AA and 50420HA

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
WLD-110	Cutting Processes	2
WLD-115	SMAW (Stick) Plate	5
WLD-121	GMAW (MIG) FCAW/Plate	4
WLD-131	GTAW (TIG) Plate	4
	Total Credits	15

# Degrees

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## Welding Technology - Fabrication Level III

**Program Code**

C50420F

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ISC-112	Industrial Safety	2
WLD-110	Cutting Processes	2
WLD-141	Symbols and Specifications	3
WLD-151	Fabrication I	4
WLD-251	Fabrication II	3
	Total Credits	14

# Degrees

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## Welding Technology - Intermediate Level II

**Program Code**

C50420E

**Degree Type**

Certificate

### Required Courses

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
WLD-116	SMAW (stick) Plate/Pipe	4
WLD-141	Symbols and Specifications	3
WLD-151	Fabrication I	4
WLD-261	Certification Practices	2
	<b>Total Credits</b>	<b>13</b>

# Degrees

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## Welding Technology

**Program Code**

D50420

**Degree Type**

Diploma

### RECOMMENDED COURSE SEQUENCE

#### Fall Semester - Year One

Course Code	Title	Credits
ACA-111	College Student Success	1
CIS-113	Computer Basics	1
DFT-152	CAD II	3
ENG-111	Writing and Inquiry	3
WLD-110	Cutting Processes	2
WLD-115	SMAW (Stick) Plate	5
WLD-121	GMAW (MIG) FCAW/Plate	4

#### Spring Semester - Year One

Course Code	Title	Credits
MAT-110	Mathematical Measurement and Literacy	3
WLD-116	SMAW (stick) Plate/Pipe	4
WLD-131	GTAW (TIG) Plate	4
WLD-141	Symbols and Specifications	3
WLD-261	Certification Practices	2

#### Summer Semester – Year One

Course Code	Title	Credits
MEC-111	Machine Processes I	3

#### Fall Semester - Year Two

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Total Credits	38
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# Courses

## Academic Related

### ACA-111: College Student Success

**Credits** 1

**Lab** 0

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

ALL

#### **Description**

This course introduces the college's physical, academic, and social environment and promotes the personal development essential for success. Topics include campus facilities and resources; policies, procedures, and programs; study skills; and life management issues such as health, self-esteem, motivation, goal-setting, diversity, and communication. Upon completion, students should be able to function effectively within the college environment to meet their educational objectives.

### ACA-122: College Transfer Success

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

ALL

#### **Description**

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## Accounting

### Program Description

Craven Community College's Accounting curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting profession. Using the language of business,

accountants assemble, analyze, process, and communicate essential information about financial operations.

For degree completion, students are required to successfully complete 69 semester hour credits (SHC) of courses. Students study financial and managerial accounting, taxes, governmental and not-for-profit accounting, bookkeeping, auditing, and payroll accounting. In addition to 10 required courses in accounting principles, theories, and practice, students learn about business law, general business, and economics. Related skills are developed through the study of communications, social sciences and humanities, and computer applications. Students may complete the program online, as well as in traditional face-to-face formats.

Craven Community College's Accounting Program is accredited by the Accreditation Council of Business Schools and Programs.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency.

### Program Learning Outcomes

Graduates of this program will be able to:

- Analyze, classify and record transactions for profit and non-profit organizations.
- Demonstrate mastery of accounting skills for
  - a. adjusting entries,
  - b. correction of accounting errors,
  - c. payroll,
  - d. inventory,
  - e. depreciation, and
  - f. internal controls and fraud prevention.
- Demonstrate an understanding of federal and state tax law.

### Career Opportunities

The Accounting program prepares students to begin their careers assisting accountants as full-charge bookkeepers, junior accountants, accounting clerks, or office managers. An accounting assistant provides bookkeeping capabilities to a variety of employers through such responsibilities as accounts receivable/payable, payroll, balance sheets, income statements, billing, and bank statement reconciliation. Entry level accounting positions are offered in many types of organizations, including:

- accounting firms

# Courses

- small businesses
- manufacturing firms
- banks
- hospitals
- school systems
- governmental agencies

With work experience and additional education, an individual may advance in the accounting profession.

## Contact Information

**Associate Dean of Career Programs**  
252-638-7372

**Dean of Career Programs**  
252-638-4550

**Admissions Office**  
252-638-7430

## ACC-120: Principles of Financial Accounting

**Credits** 4

**Lab** 2

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

ENG-025 or ENG-045 (can be taken previously or concurrently)

*and*

MAT-025 or MAT-035 or MAT-045 (can be taken previously or concurrently)

**Session Cycle**

ALL

**Description**

This course introduces business decision-making using accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ACC-121: Principles of Managerial Accounting

**Credits** 4

**Lab** 2

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-120: Principles of Financial Accounting](#)

**Session Cycle**

Spring Only

**Description**

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ACC-130: Business Income Taxes

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces the relevant laws governing business and fiduciary income taxes. Topics include tax law relating to business organizations, electronic research and methodologies, and the use of technology for the preparation of business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various business tax forms.

# Courses

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## ACC-131: Federal Income Taxes

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[ACC-130: Business Income Taxes](#)

**Session Cycle**

Spring Only

**Description**

This course provides an overview of federal income taxes for individuals, partnerships, and corporations. Topics include tax law, electronic research and methodologies and the use technology for the preparation of individual and business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations.

## ACC-140: Payroll Accounting

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-120: Principles of Financial Accounting](#)  
or ACC-115

**Session Cycle**

Spring Only

**Description**

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology.

## ACC-150: Accounting Software Applications

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-120: Principles of Financial Accounting](#)  
or ACC-115

**Session Cycle**

Fall & Spring

**Description**

This course introduces microcomputer applications related to accounting systems. Topics include general ledger, accounts receivable, accounts payable, inventory, payroll, and correcting, adjusting, and closing entries. Upon completion, students should be able to use a computer accounting package to accurately solve accounting problems.

## ACC-180: Practices in Bookkeeping

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-120: Principles of Financial Accounting](#)

**Session Cycle**

Fall Only

**Description**

This course provides advanced instruction in bookkeeping and record-keeping functions. Emphasis is placed on mastering adjusting entries, correction of errors, depreciation, payroll, and inventory. Upon completion, students should be able to conduct all key bookkeeping functions for small businesses.

# Courses

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## ACC-215: Ethics in Accounting

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-121: Principles of Managerial Accounting](#)

**Session Cycle**

Fall Only

**Description**

This course introduces students to professional codes of conduct and ethics adopted by professional associations and state licensing boards for accountants, auditors, and fraud examiners. Topics include research and discussion of selected historical and contemporary ethical cases and issues as they relate to accounting and business. Upon completion, students should be able to apply codes, interpret facts and circumstances, as they relate to accounting firms and business activities.

## ACC-220: Intermediate Accounting I

**Credits** 4

**Lab** 2

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-120: Principles of Financial Accounting](#)

**Session Cycle**

Fall Only

**Description**

This course is a continuation of the study of accounting principles with in-depth coverage of theoretical concepts and financial statements. Topics include generally accepted accounting principles and extensive analysis of balance sheet components. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards.

## ACC-225: Cost Accounting

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-121: Principles of Managerial Accounting](#)

**Session Cycle**

Fall Only

**Description**

This course introduces the nature and purposes of cost accounting as an information system for planning and control. Topics include direct materials, direct labor, factory overhead, process, job order, and standard cost systems. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

## ACC-240: Gov & Not-For-Profit Acct

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-121: Principles of Managerial Accounting](#)

**Session Cycle**

Spring Only

**Description**

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.

# Courses

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## ACC-269: Auditing & Assurance Services

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-220: Intermediate Accounting I](#)

**Session Cycle**

Spring Only

**Description**

This course introduces selected topics pertaining to the objectives, theory and practices in engagements providing auditing and other assurance services. Topics include planning, conducting and reporting, with emphasis on the related professional ethics and standards. Upon completion, students should be able to demonstrate an understanding of the types of professional services, the related professional standards, and engagement methodology.

## Aerospace/Flight Training

### AER-110: Air Navigation

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course covers the basic elements of air navigation, fundamentals of pilotage and dead reckoning, and the use of a plotter, computer, and aerial charts. Topics include pilotage, dead reckoning, radio navigation, LORAN, Global Positioning Systems, and the use of FAA publications. Upon completion, students should be able to interpret aeronautical charts and apply navigational principles.

### AER-111: Aviation Meteorology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course covers the atmosphere, interpretation and measurement of meteorological elements, and the effects of such on aircraft operations and performance. Topics include heat exchanges in the atmosphere; temperature, pressure, stability, clouds, air masses, fronts, and thunderstorms; and the use and interpretation of weather data. Upon completion, students should be able to analyze weather data for flight planning and safe flying.

### AER-112: Aviation Laws and FARs

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course provides an in-depth study of the state, federal, and international regulations forming the structure of aviation law. Emphasis is placed on Federal Aviation Regulations Parts 61, 91, and 135 with additional emphasis on legal issues in aviation law. Upon completion, students should be able to apply legal principles and interpret federal air regulations.

### AER-113: History of Aviation

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course provides a historical survey of the efforts of manned-flight. Topics include the development of aircraft, milestones in aviation, noted pioneers, and the socioeconomic impact of flight upon modern civilization. Upon completion, students should be able to demonstrate an understanding of the advancements that aviation has accrued for society and contemporary changes in aviation.

# Courses

## AER-114: Aviation Management

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course covers operation of a flight department on a cost-effective basis and analysis of profit and loss statements. Topics include flight operations costs, aircraft acquisition analysis and cost comparisons, costs versus revenue, and break-even points. Upon completion, students should be able to calculate cost of flight operations and apply monthly and annual budget analysis.

## AER-115: Flight Simulator Instrument Instruction

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$50

### **Description**

This course covers classroom and instrument flight training in a FAA-approved flight simulator. Emphasis is placed on Instrument Flight Rules (IFR) equipment, tracking, approach and navigation procedures, to include holding and missed approaches. Upon completion, students should be able to plan and execute an IFR flight and smoothly transition to instrument training in an actual aircraft.

## AER-116: Private Pilot Flight Simulator

**Credits** 2

**Lab** 2

**Lecture** 1

**Fee** \$50

### **Description**

This course provides classroom and hands-on simulator training needed to support FAA Private Pilot Certificate qualification requirements. Topics include introduction to checklists, flight procedures, radio procedures, ground and flight maneuvers that include; take-offs, climbs, level flight, turns, glides, stalls, slow flight, descents, slips, landings, emergency procedures, cross country planning, and navigation. Upon completion, students should be able to log their simulator training time, transition to Private Pilot training in an actual aircraft, and successfully meet all FAA requirements for Private Pilot Certification.

## AER-150: Private Pilot Flight Theory

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course covers the aeronautical knowledge required to meet the Federal Aviation Administration regulations for private pilot certification. Topics include the principles of flight, the flight environment, basic aircraft systems and performance, basic meteorology and weather data interpretation, and FAA regulations. Upon completion, students should be able to demonstrate the competencies required for the FAA written examination for a private pilot certificate.

## AER-151: Flight-Private Pilot

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course provides the hands-on training needed to qualify for a Federal Aviation Administration private pilot certificate. Topics include flight maneuvers (ground procedures, take-offs, climbs, level flight, turns, glides, stalls, slow flight, descents, slips, landings, emergency procedures) and cross-country planning and navigation. Upon completion, students should be able to demonstrate the competencies required for the flight test practical exam for the private pilot certificate.

## AER-160: Instrument Flight Theory

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course covers the required aeronautical knowledge of the Federal Aviation Administration Regulation Instrument Ground School. Topics include a study of instruments, systems, instrument flight charts, instrument flight planning, approach procedures, and the IFR regulations. Upon completion, students should be able to demonstrate the competencies required to complete the FAA written examination for an instrument rating.

# Courses

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## AER-161: Flight-Instrument Pilot

**Credits** 2

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[AER-151: Flight-Private Pilot](#)

**Session Cycle**

ALL

**Description**

This course covers instruction and training in instrument flight planning including IFR navigation, VOR, ILS, ADF, and compliance with ATC procedures. Emphasis is placed on approach and navigation procedures, including holding and missed approaches, and development of skill in executing en route and approach procedures. Upon completion, students should be able to plan and execute an IFR flight and demonstrate competencies required for the FAA instrument pilot flight exam.

## AER-170: Commercial Flight Theory

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course covers advanced aircraft control, cross-country operations, and other topics required for the FAA commercial pilot written exam. Emphasis is placed on the principles of aircraft performance and operation, take-off performance, cruise performance, descent and landing performance, and weight and balance computations. Upon completion, students should be able to demonstrate commercial pilot skills and competence in the materials required for the FAA written commercial pilot examination.

## AER-171: Flight-Commercial Pilot

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[AER-151: Flight-Private Pilot](#)

**Session Cycle**

ALL

**Description**

This course provides the hands-on training needed to qualify for a Federal Aviation Administration commercial pilot certificate. Topics include flight instruction in advanced precision maneuvers, maximum performance take-off and landings, emergency procedures, operation of complex aircraft, aircraft performance, and range and fuel planning. Upon completion, students should be able to demonstrate competence in the areas of the flight test practical exam for the commercial pilot certificate.

## AER-210: Flight Dynamics

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course covers basic and advanced principles of aerodynamic phenomena and fluid flow. Topics include airflow phenomena; lift/weight/thrust/drag; aircraft configuration characteristics, stability, and control; subsonic, transonic, and supersonic flight; critical Mach numbers; and the V-g Diagram. Upon completion, students should be able to explain the elements of applied aerodynamics and aeronautical engineering which relate directly to the problems of flight operations.

## AER-211: Air Traffic Control

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course provides a detailed analysis of all aspects of air traffic control. Emphasis is placed on an in-depth analysis of air traffic control, including utilization of the air traffic environment based on the pilot's and controller's perspective. Upon completion, students should be able to operate an aircraft within the national airspace system under FAA air traffic control.

# Courses

## AER-215: Flight Safety

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course covers the basic procedures and practices of aircraft accident prevention, accident investigation, and reporting. Topics include a comprehensive review of federal regulations pertinent to aviation safety and analyses of actual aviation accident cases and their causes. Upon completion, students should be able to demonstrate an understanding and respect for specific personal factors such as attitude, motivation, and skill related to flight safety.

## AER-216: Engines & Systems

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course introduces piston and turbine aircraft engines and associated systems. Topics include aircraft hydraulic, pneumatic, electrical, air conditioning, and pressurization systems along with the theory of engine operations, including power and thrust computations. Upon completion, students should be able to apply principles of engine and systems operation.

## AER-217: Air Transportation

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course covers the development and present status of the air transportation system. Topics include federal legislation, characteristics and classification of air carriers, development of the air traffic control system, and the organization and function of the FAA. Upon completion, students should be able to relate the knowledge acquired to career development.

## AER-218: Human Factors in Aviation

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course analyzes interpersonal relationships in the cockpit and related psychological factors that affect pilot performance and efficiency during flight operations. Topics include cockpit management, judgment, aircraft and flight crew coordination and control, physiological factors, responsibility, and decision-making capabilities. Upon completion, students should be able to apply work-proven routines to stress management, crew responsibility, and the team concept in the cockpit.

## AER-220: Airport Management

**Credits** 2

**Lab** 0

**Lecture** 2

**Description**

This course examines the major functions of airport management and the concepts underlying airport planning and construction. Topics include forecasting volumes and airport size and design, including master planning, location requirements, site selection, runway configuration, zoning laws, and other considerations. Upon completion, students should be able to demonstrate basic airport management skills including an understanding of the socioeconomic effect of airports on the community.

## AER-280: Instructor Pilot Flight Theory

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[AER-170: Commercial Flight Theory](#)

**Session Cycle**

ALL

### **Description**

This course covers flight instruction and the skills and knowledge necessary to work effectively as a flight instructor. Topics include fundamentals of instruction, lesson planning, instructor regulations and endorsements, and related aeronautical knowledge. Upon completion, students should be able to demonstrate competence necessary for the Federal Aviation Administration Fundamentals of Instructing Test and the appropriate instructor written examination.

# Courses

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## AER-281: Flight-CFI

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[AER-171: Flight-Commercial Pilot](#)

**Session Cycle**

ALL

**Description**

This course provides experience in preparation for the flight instructor practical test. Emphasis is placed on the ability to transition to right seat flight while teaching performance maneuvers including operation of a complex aircraft. Upon completion, students should be able to demonstrate competence in right seat operation and CFI maneuvers as specified in the FAA Practical Test Standards.

## AER-285: Flight-Multi-Engine

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[AER-171: Flight-Commercial Pilot](#)

**Session Cycle**

ALL

**Description**

This course provides the flight training required to obtain a multi-engine rating. Topics include multi-engine safety procedures, single-engine operations and performance, Vmc, instrument approaches (single- and multi-engine), and emergency procedures. Upon completion, students should be able to demonstrate the competencies required for the flight test practical examination for a multi-engine rating.

## Air Conditioning, Heating, and Refrigeration

### AHR-110: Introduction to Refrigeration

**Credits** 5

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade.

### AHR-111: HVACR Electricity

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Summer Only

**Description**

This course introduces electricity as it applies to HVACR equipment. Emphasis is placed on power sources, interaction of electrical components, wiring of simple circuits, and the use of electrical test equipment. Upon completion, students should be able to demonstrate good wiring practices and the ability to read simple wiring diagrams.

# Courses

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## AHR-115: Refrigeration Systems

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[AHR-110: Introduction to Refrigeration](#)

**Session Cycle**

Summer Only

**Description**

This course introduces refrigeration systems and applications. Topics include defrost methods, safety and operational control, refrigerant piping, refrigerant recovery and charging, and leak testing. Upon completion, students should be able to assist in installing and testing refrigeration systems and perform simple repairs.

## Anthropology

### ANT-210: General Anthropology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the physical, archaeological, linguistic, and ethnological fields of anthropology. Topics include human origins, genetic variations, archaeology, linguistics, primatology, and contemporary cultures. Upon completion, students should be able to demonstrate an understanding of the four major fields of anthropology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

### ANT-221: Comparative Cultures

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides an ethnographic survey of societies around the world covering their distinctive cultural characteristics and how these relate to cultural change. Emphasis is placed on the similarities and differences in social institutions such as family, economics, politics, education, and religion. Upon completion, students should be able to demonstrate knowledge of a variety of cultural adaptive strategies.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

### ANT-240: Archaeology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Corequisites**

[ANT-240A: Archaeology Field Lab](#)

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the scientific study of the unwritten record of the human past. Emphasis is placed on the process of human cultural evolution as revealed through archaeological methods of excavation and interpretation. Upon completion, students should be able to demonstrate an understanding of how archaeologists reconstruct the past and describe the variety of past human cultures.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

# Courses

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## ANT-240A: Archaeology Field Lab

**Credits** 2

**Lab** 4

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[ANT-240: Archaeology](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides practical applications of archaeological methods. Emphasis is placed on basic archaeological methods and techniques required in site surveys, site classification, excavation, recording, processing, presentation, chronometry, and analysis of materials. Upon completion, students should be able to participate in applying archaeological methods and techniques to the excavation of a specific site.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## Architectural CAD

### ARC-114: Architectural CAD

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**State Corequisites**

[ARC-114A: Architectural CAD Lab](#)

**Session Cycle**

Fall Only

**Description**

This course introduces basic architectural CAD techniques. Topics include basic commands and system hardware and software. Upon completion, students should be able to prepare and plot architectural drawings to scale within accepted architectural standards.

### ARC-114A: Architectural CAD Lab

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[ARC-114: Architectural CAD](#)

**Session Cycle**

Fall Only

**Description**

This course provides a laboratory setting to enhance architectural CAD skills. Emphasis is placed on further development of commands and system operation. Upon completion, students should be able to prepare and plot scaled architectural drawings.

## Art

### ART-111: Art Appreciation

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

ALL

**Description**

This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts. **This is a Universal General Education Transfer Component (UGETC) course.***

# Courses

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## ART-114: Art History Survey I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

Fall Only

**Description**

This course covers the development of art forms from ancient times to the Renaissance. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts. This is a Universal General Education Transfer Component (UGETC) course.*

## ART-115: Art History Survey II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

Spring Only

**Description**

This course covers the development of art forms from the Renaissance to the present. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts. This is a Universal General Education Transfer Component (UGETC) course.*

## ART-121: Two-Dimensional Design

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$35

**Description**

This course introduces the elements and principles of design as applied to two-dimensional art. Emphasis is placed on the structural elements, the principles of visual organization, and the theories of color mixing and interaction. Upon completion, students should be able to understand and use critical and analytical approaches as they apply to two-dimensional visual art.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-122: Three-Dimensional Design

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

This course introduces basic studio problems in three-dimensional visual design. Emphasis is placed on the structural elements and organizational principles as applied to mass and space. Upon completion, students should be able to apply three-dimensional design concepts.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## ART-131: Drawing I

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course introduces the language of drawing and the use of various drawing materials. Emphasis is placed on drawing techniques, media, and graphic principles. Upon completion, students should be able to demonstrate competence in the use of graphic form and various drawing processes.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-132: Drawing II

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[ART-131: Drawing I](#)

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course continues instruction in the language of drawing and the use of various materials. Emphasis is placed on experimentation in the use of drawing techniques, media, and graphic materials. Upon completion, students should be able to demonstrate increased competence in the expressive use of graphic form and techniques.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-135: Figure Drawing I

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[ART-131: Drawing I](#)

**Local Prerequisites**

[ART-121](#) (For Fine Art pre-majors in Art Only)

**Session Cycle**

Contact Program Advisor

**Fee** \$40

**Description**

This course introduces rendering the human figure with various drawing materials. Emphasis is placed on the use of the visual elements, anatomy, and proportion in the representation of the draped and undraped figure. Upon completion, students should be able to demonstrate competence in drawing the human figure.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-212: Gallery Assistantship I

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course covers the practical application of display techniques. Emphasis is placed on preparation of artwork for installation, hardware systems, and exhibition graphics. Upon completion, students should be able to demonstrate basic gallery exhibition skills.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## ART-213: Gallery Assistantship II

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

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

**Description**

This course provides additional experience in display techniques. Emphasis is placed on preparation of artwork for exhibition, alternative methods of installation, hardware systems, and exhibition graphics. Upon completion, students should be able to demonstrate independent decision-making and exhibition expertise.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-214: Portfolio and Resume

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Local Prerequisites**

[ART-121: Two-Dimensional Design](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course covers resume writing, interview skills, and the preparation and presentation of an art portfolio. Emphasis is placed on the preparation of a portfolio of original artwork, the preparation of a photographic portfolio, approaches to resume writing, and interview techniques. Upon completion, students should be able to photograph and present a digital portfolio and write an effective resume.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-240: Painting I

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Local Prerequisites**

[ART-121](#) (For Fine Art pre-majors in Art Only)

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course introduces the language of painting and the use of various painting materials. Emphasis is placed on the understanding and use of various painting techniques, media, and color principles. Upon completion, students should be able to demonstrate competence in the use of creative processes directed toward the development of expressive form.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-241: Painting II

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[ART-240: Painting I](#)

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course provides a continuing investigation of the materials, processes, and techniques of painting. Emphasis is placed on the exploration of expressive content using a variety of creative processes. Upon completion, students should be able to demonstrate competence in the expanded use of form and variety.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## ART-264: Digital Photography I

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Local Prerequisites**

[ART-121](#) (For Fine Art pre-majors in Art Only)

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course introduces digital photographic equipment, theory and processes. Emphasis is placed on camera operation, composition, computer photo manipulation and creative expression. Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-265: Digital Photography II

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[ART-264: Digital Photography I](#)

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course provides exploration of the concepts and processes of photo manipulation through complex composite images, special effects, color balancing and image/text integration. Emphasis is placed on creating a personal vision and style. Upon completion, students should be able to produce well-executed images using a variety of photographic and photo manipulative approaches.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-281: Sculpture I

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Local Prerequisites**

[ART-121](#) (For Fine Art pre-majors in Art Only)

**Session Cycle**

Fall Only

**Fee** \$35

**Description**

This course provides an exploration of the creative and technical methods of sculpture with a 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 a variety of sculptural approaches.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## ART-282: Sculpture II

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[ART-281: Sculpture I](#)

**Session Cycle**

Fall Only

**Fee** \$35

**Description**

This course builds on the visual and technical skills learned in ART 281. Emphasis is placed on developing original solutions to sculptural problems in a variety of media. Upon completion, students should be able to express individual ideas using the techniques and materials of sculpture.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## ART-283: Ceramics I

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Local Prerequisites**

[ART-121](#) (For Fine Art pre-majors in Art Only)

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course provides an introduction to three-dimensional design principles using the medium of clay. Emphasis is placed on fundamentals of forming, surface design, glaze application, and firing. Upon completion, students should be able to demonstrate skills in slab and coil construction, simple wheel forms, glaze technique, and creative expression.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-284: Ceramics II

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[ART-283: Ceramics I](#)

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course covers advanced hand building and wheel techniques. Emphasis is placed on creative expression, surface design, sculptural quality, and glaze effect. Upon completion, students should be able to demonstrate a high level of technical competence in forming and glazing with a development of three-dimensional awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-285: Ceramics III

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[ART-284: Ceramics II](#)

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

This course provides the opportunity for advanced self-determined work in sculptural and functional ceramics. Emphasis is placed on developing the technical awareness of clay bodies, slips, engobes, and firing procedures necessary to fulfill the student's artistic goals. Upon completion, students should be able to demonstrate a knowledge of materials and techniques necessary to successfully create original projects in the clay medium.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## ART-286: Ceramics IV

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[ART-285: Ceramics III](#)

**Session Cycle**

Contact Program Advisor

**Fee** \$35

**Description**

This course provides the opportunity for self-determined work in sculptural and functional ceramics. Emphasis is placed on developing the technical awareness of glaze materials, glaze formulation, and firing techniques necessary to fulfill the student's artistic goals. Upon completion, students should be able to demonstrate knowledge of materials and techniques necessary to successfully create original projects in the clay medium.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

## ART-288: Studio

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course provides the opportunity for advanced self-determined work beyond the limits of regular studio course sequences. Emphasis is placed on creative self-expression and in-depth exploration of techniques and materials. Upon completion, students should be able to create original projects specific to media, materials, and techniques.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## Astronomy

### AST-111: Descriptive Astronomy

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Corequisites**

[AST-111A: Descriptive Astronomy Lab](#)

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Local Corequisites**

[MAT-025](#) or [MAT-035](#) or [MAT-045](#)

**Session Cycle**

ALL

**Description**

This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate an understanding of the universe around them.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

**This course is a Universal General Education Transfer Component (UGETC) course for the AA and AFA degrees. It satisfies other General Education hours for the AS degree.**

### AST-111A: Descriptive Astronomy Lab

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[AST-111: Descriptive Astronomy](#)

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Local Corequisites**

[MAT-025](#) or [MAT-035](#) or [MAT-045](#)

**Session Cycle**

ALL

**Description**

The course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

**This is a Universal General Education Transfer Component (UGETC) course for the AA and AFA degree. It satisfies other General Education hours for the AS degree.**

## Automation and Robotics

### ATR-112: Introduction to Automation

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the basic principles of automated systems and describes the tasks that technicians perform on the job. Topics include the history, development, and current applications of robots and automated systems including their configuration, operation, components, and controls. Upon completion, students should be able to understand the basic concepts of automation and robotic systems.

# Courses

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## ATR-115: Introduction to Mechatronics

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the synergistic application of mechanical, electrical, electronic, and computer engineering technologies that are used for the purpose of control and maintenance of high-tech devices and equipment. Topics include automation, advanced manufacturing, sensors, actuators, process control, circuits, robotics, electromechanical equipment, hydraulics, pneumatics, electrical drives, motors, and programmable logic controllers. Upon completion, students should be able to demonstrate an understanding of the function of the components of a mechatronic system, their controlling interactions, and the overall operation of the mechatronic control system.

## ATR-212: Industrial Robots

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the operation of industrial robots. Topics include the classification of robots, activators, grippers, work envelopes, computer interfaces, overlapping work envelopes, installation, and programming. Upon completion, students should be able to install, program, and troubleshoot industrial robots.

## ATR-219: Automation Troubleshooting

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces troubleshooting procedures used in automated systems. Topics include logical fault isolation, diagnostic software usage, component replacement techniques, and calibration; safety of equipment; and protection of equipment while troubleshooting. Upon completion, students should be able to analyze and troubleshoot an automated system.

## Automotive

### AUT-116: Engine Repair

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Corequisites**

[AUT-116A: Engine Repair Lab](#)

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

# Courses

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## **AUT-116A: Engine Repair Lab**

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[AUT-116: Engine Repair](#)

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

## **AUT-141: Suspension & Steering Systems**

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Corequisites**

[AUT-141A: Suspension & Steering Lab](#)

**Session Cycle**

Fall Only

**Fee** \$45

**Description**

This course covers principles of operation, types, and diagnosis/repair of suspension and steering systems to include steering geometry. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

## **AUT-141A: Suspension & Steering Lab**

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[AUT-141: Suspension & Steering Systems](#)

**Session Cycle**

Fall Only

**Fee** \$45

**Description**

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

## **AUT-151: Brake Systems**

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Corequisites**

[AUT-151A: Brakes Systems Lab](#)

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disc brakes involving hydraulic, vacuum boost, hydra-boost, electrically powered boost, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

# Courses

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## AUT-151A: Brakes Systems Lab

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[AUT-151: Brake Systems](#)

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include drum and disc brakes involving hydraulic, vacuum-boost, hydra-boost, electrically powered boost, and anti-lock, parking brake systems and emerging brake systems technologies. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

## AUT-163: Advanced Automotive Electricity

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[TRN-120: Basic Transportation Electricity](#)

**State Corequisites**

[AUT-163A: Advanced Automotive Electricity Lab](#)

**Session Cycle**

Fall Only

**Fee** \$45

**Description**

This course covers electronic theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of electronics, lighting, gauges, horn, wiper, accessories, and body modules. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, and troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns.

## AUT-163A: Advanced Automotive Electricity Lab

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[AUT-163: Advanced Automotive Electricity](#)

**Session Cycle**

Fall Only

**Fee** \$45

**Description**

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, troubleshooting and emerging electrical/electronic systems technologies. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns.

## AUT-181: Engine Performance 1

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Corequisites**

[AUT-181A: Engine Performance 1 Lab](#)

**Session Cycle**

Fall Only

**Fee** \$45

**Description**

This course covers the introduction, theory of operation, and basic diagnostic procedures required to restore engine performance to vehicles equipped with complex engine control systems. Topics include an overview of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information.

# Courses

## AUT-181A: Engine Performance 1 Lab

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[AUT-181: Engine Performance 1](#)

**Session Cycle**

Fall Only

**Fee** \$45

**Description**

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include overviews of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices and emerging engine performance technologies. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information.

## AUT-183: Engine Performance 2

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[AUT-181: Engine Performance 1](#)

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

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.

## AUT-212: Auto Shop Management

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the principles of management essential to decision-making, communication, authority, and leadership. Topics include shop supervision, shop organization, customer relations, cost effectiveness and work place ethics. Upon completion, students should be able to describe basic automotive shop operation from a management standpoint.

## AUT-213: Automotive Servicing 2

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$45

**Description**

This course is a lab used as an alternative to co-op placement. Emphasis is placed on shop operations, troubleshooting, testing, adjusting, repairing, and replacing components using appropriate test equipment and service information. Upon completion, students should be able to perform a variety of automotive repairs using proper service procedures and to operate appropriate equipment.

## AUT-221: Automatic Transmissions/Transaxles

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Fee** \$45

**Description**

This course covers operation, diagnosis, service, and repair of automatic transmissions/transaxles. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair automatic drive trains.

# Courses

## **AUT-221A: Automatic Transmissions/Transaxles Lab**

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[AUT-221: Automatic Transmissions/Transaxles](#)

**Session Cycle**

Contact Program Advisor

**Fee** \$45

**Description**

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to diagnose and repair automatic drive trains..

## **AUT-231: Manual Transmissions/Transaxles/Drive, Trains**

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Corequisites**

[AUT-231A: Manual Transmissions/Transaxles/Drive, Trains Lab](#)

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

This course covers the operation, diagnosis, and repair of manual transmissions/transaxles, clutches, driveshafts, axles, and final drives. Topics include theory of torque, power flow, and manual drive train servicing and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair manual drive trains.

## **AUT-231A: Manual Transmissions/Transaxles/Drive, Trains Lab**

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[AUT-231: Manual Transmissions/Transaxles/Drive, Trains](#)

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

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.

## **Automotive Technologies**

### **ATT-140: Emerging Transportation Technology**

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

This course covers emerging technologies in the automotive industry and diagnostic procedures associated with those technologies. Topics include exploring new technologies, diagnostic tools, methods and repairs. Upon completion, students should be able to demonstrate practical skills applicable to emerging automotive technologies.

# Courses

## Aviation Maintenance

### AVI-110: Aviation Maintenance-Gen.

**Credits** 15

**Lab** 15

**Lecture** 10

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$126

**Description**

This course introduces general subjects related to all aspects of aircraft maintenance. Topics include mechanic privileges/limitations; math and physics; basic electricity; aircraft drawings; maintenance forms; fluid lines/fittings; weight and balance; corrosion control; and ground operations. Upon completion, students should be prepared to pass the FAA knowledge, oral, and practical exams for the general portion of the mechanic's certificate with either the airframe or powerplant ratings.

### AVI-120: Airframe Maintenance I

**Credits** 12

**Lab** 18

**Lecture** 6

**Clinical/WkExp** 0

**State Prerequisites**

[AVI-110: Aviation Maintenance-Gen.](#)

**Session Cycle**

Spring Only

**Fee** \$126

**Description**

This course covers airframe structures, systems, and components with an emphasis on the different types of aircraft construction and repair methods. Topics include aircraft non-metallic (composite), sheet metal, and wood structures; welding; covering and finishes (dope and fabric); assembly and rigging; and communication and navigation systems. Students should gain the knowledge and skills in these areas to prepare them for the airframe rating for the FAA mechanic's certificate.

### AVI-130: Airframe Maintenance II

**Credits** 9

**Lab** 9

**Lecture** 6

**Clinical/WkExp** 0

**State Prerequisites**

[AVI-110: Aviation Maintenance-Gen.](#)

**Session Cycle**

Fall Only

**Fee** \$126

**Description**

This course deals entirely with airframe systems and components. Topics include aircraft electrical, hydraulic, pneumatic, landing gear, position, warning, and fuel systems. Upon completion of the course, the student should be prepared to pass the applicable portions of the knowledge, oral, and practical tests of the airframe rating for the FAA mechanic's certificate.

### AVI-230: Airframe Maintenance III

**Credits** 7

**Lab** 9

**Lecture** 4

**Clinical/WkExp** 0

**State Prerequisites**

[AVI-110: Aviation Maintenance-Gen.](#)

**Session Cycle**

Spring Only

**Fee** \$126

**Description**

In this final course of the airframe series, the emphasis is on systems and components, culminating with the airframe inspection portion of the course. In addition to the inspection aspects, instrument, cabin environmental control, fire protection, and ice and rain control systems are covered. The student should be prepared to take the applicable portions of the written, oral, and practical examination for the airframe rating on the FAA mechanic's certificate.

# Courses

## AVI-240: Powerplant Maintenance I

**Credits** 6

**Lab** 9

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[AVI-110: Aviation Maintenance-Gen.](#)

**Session Cycle**

Summer Only

**Fee** \$126

**Description**

This first course in the powerplant series covers theoretical and practical aspects of the two major types of aircraft propulsion systems, piston and jet engines. Auxiliary power units are also covered, including their relationship to the systems they operate. Upon completion, the student should be knowledgeable of aircraft engines to include maintenance and operation at the level required by the FAA to qualify for a powerplant rating on a mechanic's certificate.

## AVI-250: Powerplant Maintenance II

**Credits** 15

**Lab** 15

**Lecture** 10

**Clinical/WkExp** 0

**State Prerequisites**

[AVI-110: Aviation Maintenance-Gen.](#)

**Session Cycle**

Fall Only

**Fee** \$126

**Description**

This course emphasizes engine systems and components. Topics include engine instruments and fire protection, electrical, lubrication, fuel, ignition, starting, and fuel metering systems. Students completing this course should be capable of passing appropriate portions of the FAA knowledge, oral, and practical tests for the powerplant rating.

## AVI-260: Powerplant Maintenance III

**Credits** 9

**Lab** 12

**Lecture** 5

**Clinical/WkExp** 0

**State Prerequisites**

[AVI-110: Aviation Maintenance-Gen.](#)

**Session Cycle**

Fall Only

**Fee** \$126

**Description**

This final course of the powerplant series covers engine systems and components; propellers and unducted fans; and induction, airflow, cooling, exhaust, and reverser systems. The course culminates with engine inspections. The student should be prepared to pass the applicable portions of the knowledge, oral, and practical exams for the powerplant rating at the completion of this course.

## Biology

### BIO-110: Principles of Biology

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Local Corequisites**

[MAT-025](#) or [MAT-035](#) or [MAT-045](#)

**Session Cycle**

ALL

**Description**

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

**This course is a Universal General Education Transfer Component (UGETC) course for the AA and AFA degrees. It satisfies other General Education hours for the AS degree.**

# Courses

## BIO-111: General Biology I

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

Local Prerequisites

ENG-025 or ENG-045 (can be taken previously or concurrently)

and MAT-025 or MAT-035 or MAT-045 (can be taken previously or concurrently)

Session Cycle

ALL

Description

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism and energy transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

**This is a Universal General Education Transfer Component (UGETC) course for the AA, AS, AATP, ASTP, and AFA degrees.**

## BIO-112: General Biology II

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[BIO-111: General Biology I](#)

Session Cycle

ALL

Description

This course is a continuation of BIO 111. Emphasis is placed on organisms, evolution, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

**This is a Universal General Education Transfer Component (UGETC) course for the AS and ASTP degrees.**

## BIO-120: Introductory Botany

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[BIO-110](#) or [BIO-111](#)

Session Cycle

ALL

Description

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

## BIO-130: Introductory Zoology

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[BIO-110](#) or [BIO-111](#)

Session Cycle

ALL

Description

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

# Courses

## BIO-140: Environmental Biology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Corequisites**

[BIO-140A: Environmental Biology Lab](#)

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Local Corequisites**

[MAT-025](#) or [MAT-035](#) or [MAT-045](#)

**Session Cycle**

Spring Only

**Description**

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

## BIO-140A: Environmental Biology

### Lab

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[BIO-140: Environmental Biology](#)

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Local Corequisites**

[MAT-025](#) or [MAT-035](#) or [MAT-045](#)

**Session Cycle**

Spring Only

**Description**

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

## BIO-155: Nutrition

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the biochemistry of foods and nutrients with consideration of the physiological effects of specialized diets for specific biological needs.

Topics include cultural, religious, and economic factors that influence a person's acceptance of food, as well as nutrient requirements of the various life stages. Upon completion, students should be able to identify the functions and sources of nutrients, the mechanisms of digestion, and the nutritional requirements of all age groups.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## BIO-163: Basic Anatomy & Physiology

**Credits** 5

**Lab** 2

**Lecture** 4

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

and [MAT-025](#) or [MAT-035](#) or [MAT-045](#) (can be taken previously or concurrently)

**Session Cycle**

ALL

**Description**

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

## BIO-168: Anatomy and Physiology I

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently) AND high school chemistry with a "C" or better;

or [CHM-090](#) or higher chemistry

Local Corequisites

[MAT-025](#) or [MAT-045](#)

Session Cycle

Fall & Spring

Description

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## BIO-169: Anatomy and Physiology II

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[BIO-168: Anatomy and Physiology I](#)

Session Cycle

Fall & Spring

Description

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## BIO-250: Genetics

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[BIO-112: General Biology II](#)

Session Cycle

Fall & Spring

Description

This course covers principles of prokaryotic and eukaryotic cell genetics. Emphasis is placed on the molecular basis of heredity, chromosome structure, patterns of Mendelian and non-Mendelian inheritance, evolution, and biotechnological applications. Upon completion, students should be able to recognize and describe genetic phenomena and demonstrate knowledge of important genetic principles.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## BIO-275: Microbiology

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

Take One: [BIO-111](#), [BIO-163](#), BIO-165, or [BIO-168](#)

Session Cycle

Spring Only

Description

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

# Courses

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## BIO-280: Biotechnology

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[BIO-111](#), [CHM-131](#), or [CHM-151](#)

**Session Cycle**

Fall Only

**Description**

This course provides experience in selected laboratory procedures. Topics include proper laboratory techniques in biology and chemistry. Upon completion, students should be able to identify laboratory techniques and instrumentation in basic biotechnology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## Blueprint Reading

### BPR-111: Print Reading

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic prints and visualize the features of a part or system.

### BPR-121: Blueprint Reading-Mechanical

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[BPR-111](#) or [MAC-131](#)

**Session Cycle**

Contact Program Advisor

**Fee** \$35

**Description**

This course covers the interpretation of intermediate blueprints. Topics include tolerancing, auxiliary views, sectional views, and assembly drawings. Upon completion, students should be able to read and interpret a mechanical working drawing.

## Business

### BUS-110: Introduction to Business

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects.

*This course has been approved to satisfy the Comprehensive Articulation Agreement premajor and/or elective course requirement.*

# Courses

## **BUS-115: Business Law I**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course introduces the student to the legal and ethical framework of business. Contracts, negotiable instruments, the law of sales, torts, crimes, constitutional law, the Uniform Commercial Code, and the court systems are examined. Upon completion, the student should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## **BUS-116: Business Law II**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[BUS-115: Business Law I](#)

**Session Cycle**

ALL

**Description**

This course includes the study of the legal and ethical framework of business. Business Organizations, property law, intellectual property law, agency and employment law, consumer law, secured transactions, and bankruptcy 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.

## **BUS-125: Personal Finance**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course provides a study of individual and family financial decisions. Emphasis is placed on building useful skills in buying, managing finances, increasing resources, and coping with current economic conditions. Upon completion, students should be able to develop a personal financial plan.

## **BUS-137: Principles of Management**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## **BUS-139: Entrepreneurship I**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course provides an introduction to the principles of entrepreneurship. Topics include self-analysis of entrepreneurship readiness, the role of entrepreneur in economic development, legal problems, organizational structure, sources of financing, budgeting, and cash flow. Upon completion, students should have an understanding of the entrepreneurial process and issues faced by entrepreneurs.

## **BUS-153: Human Resource Management**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns.

# Courses

## **BUS-217: Employment Law and Regulations**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

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.

## **BUS-225: Business Finance**

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-120: Principles of Financial Accounting](#)

**Session Cycle**

Fall & Spring

**Description**

This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management.

## **BUS-234: Training and Development**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

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.

## **BUS-239: Business Applications Seminar**

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-120](#), [BUS-115](#), [BUS-137](#), [MKT-120](#), and ECO-151 or [ECO-251](#) or [ECO-252](#)

**Session Cycle**

Spring Only

**Description**

This course is designed as a capstone course for Business Administration majors. Emphasis is placed on decision making in the areas of management, marketing, production, purchasing, and finance. Upon completion, students should be able to apply the techniques, processes, and vital professional skills needed in the work place.

## **BUS-240: Business Ethics**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces contemporary and controversial ethical issues that face the business community. Topics include moral reasoning, moral dilemmas, law and morality, equity, justice and fairness, ethical standards, and moral development. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society.

## **BUS-245: Entrepreneurship II**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[BUS-139: Entrepreneurship I](#)

**Session Cycle**

Spring Only

**Description**

This course is designed to allow the student to develop a business plan. Topics include the need for a business plan, sections of the plan, writing the plan, and how to find assistance in preparing the plan. Upon completion, students should be able to design and implement a business plan based on sound entrepreneurship principles.

# Courses

## BUS-253: Leadership and Management Skills

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Session Cycle

Spring Only

**Description**

This course includes a study of the qualities, behaviors, and personal styles exhibited by leaders. Emphasis is placed on coaching, counseling, team building, and employee involvement. Upon completion, students should be able to identify and exhibit the behaviors needed for organizational effectiveness.

## Business Analytics

### BAS-120: Introduction to Analytics

Credits 3

Lab 3

Lecture 2

Clinical/WkExp 0

Session Cycle

Spring Only

**Description**

This course introduces basic concepts and applications of analytics. Topics include an overview of the analytical process and the role of the analyst, applied descriptive statistics, and exploratory data analysis. Upon completion, students should be able to demonstrate a basic understanding of analytics for decision-making in business.

## Chemistry

### CHM-090: Chemistry Concepts

Credits 4

Lab 0

Lecture 4

Clinical/WkExp 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

and

[MAT-025](#) or [MAT-035](#)

**Session Cycle**

ALL

**Description**

This course provides a non-laboratory based introduction to basic concepts of chemistry. Topics include measurements, matter, energy, atomic theory, bonding, molecular structure, nomenclature, balancing equations, stoichiometry, solutions, acids and bases, gases, and basic organic chemistry. Upon completion, students should be able to understand and apply basic chemical concepts necessary for success in college-level science courses.

### CHM-131: Introduction to Chemistry

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

**State Corequisites**

[CHM-131A: Introduction to Chemistry Lab](#)

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

and [MAT-025](#) or [MAT-035](#)

**Session Cycle**

Fall Only

**Description**

This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

# Courses

## CHM-131A: Introduction to Chemistry Lab

Credits 1

Lab 3

Lecture 0

Clinical/WkExp 0

State Corequisites

[CHM-131: Introduction to Chemistry](#)

Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

and [MAT-025](#) or [MAT-035](#)

Session Cycle

Fall Only

Description

This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

## CHM-132: Organic and Biochemistry

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

Set 1: [CHM-131](#) and [CHM-131A](#)

or

Set 2: [CHM-151](#)

Session Cycle

Spring Only

Description

This course provides a survey of major functional classes of compounds in organic and biochemistry. Topics include structure, properties, and reactions of the major organic and biological molecules and basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

## CHM-151: General Chemistry I

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

and [MAT-025](#) or [MAT-035](#)

Local Corequisites

MAT-161 or [MAT-171](#)

Session Cycle

ALL

Description

This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

***This is a Universal General Education Transfer Component (UGETC) course.***

## CHM-152: General Chemistry II

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[CHM-151: General Chemistry I](#)

Local Prerequisites

[MAT-171: Precalculus Algebra](#)

Session Cycle

Fall & Spring

Description

This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

***This is a Universal General Education Transfer Component (UGETC) course.***

# Courses

## CHM-251: Organic Chemistry I

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[CHM-152: General Chemistry II](#)

Session Cycle

Fall Only

**Description**

This course provides a systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM 252.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## CHM-252: Organic Chemistry II

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[CHM-251: Organic Chemistry I](#)

Session Cycle

Spring Only

**Description**

This course provides continuation of the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines and heterocyclics; multi-step synthesis will be emphasized. Upon completion, students should be able to demonstrate an understanding of organic concepts as needed to pursue further study in chemistry and related professional fields.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## Civil Engineering and Geomatic

### CEG-151: CAD for Engineering Technology

Credits 3

Lab 3

Lecture 2

Clinical/WkExp 0

Session Cycle

Contact Program Advisor

**Description**

This course introduces computer-aided drafting (CAD) software. Topics include file and data management, drawing, editing, dimensioning commands, plotting, and related topics. Upon completion, students should be able to create and plot basic drawings and maps using CAD software.

## Communication

### COM-111: Voice and Diction I

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Prerequisites

[ENG-025](#) or [ENG-045](#)

Session Cycle

Contact Program Advisor

**Description**

This course provides guided practice in the proper production of speech. Emphasis is placed on improving speech, including breathing, articulation, pronunciation, and other vocal variables. Upon completion, students should be able to demonstrate effective natural speech in various contexts.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

## COM-120: Intro to Interpersonal Communication

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Description**

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in speech/communication.*

## COM-231: Public Speaking

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Description**

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in speech/communication. This is a Universal General Education Transfer Component (UGETC) course.*

## Computer Information Technology

### CTS-115: Information Systems Business Concepts

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

Spring Only

**Description**

The course introduces the role of IT in managing business processes and the need for business process and IT alignment. Emphasis is placed on industry need for understanding business challenges and developing/managing information systems to contribute to the decision making process based on these challenges. Upon completion, students should be able to demonstrate knowledge of the 'hybrid business manager' and the potential offered by new technology and systems.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

### CTS-120: Hardware/Software Support

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.

# Courses

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## CTS-130: Spreadsheet

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CIS-110](#) or OST-137

**Session Cycle**

Spring Only

**Description**

This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts.

## CTS-155: Tech Support Functions

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

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.

## CTS-287: Emerging Technologies

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces emerging information technologies. Emphasis is placed on evolving technologies and trends in business and industry. Upon completion, students should be able to articulate an understanding of the current trends and issues in emerging technologies for information systems.

## Computer Science

### CSC-113: Artificial Intelligence Fundamentals

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course provides a survey of artificial intelligence and machine learning. Topics include the history, development, and current applications of artificial intelligence and machine learning. Upon completion, students should be able to demonstrate general artificial intelligence and machine learning concepts.

### CSC-121: Python Programming

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CIS-115: Introduction to Programming and Logic](#)

**Session Cycle**

Spring Only

**Description**

This course introduces computer programming using the Python programming language. Emphasis is placed on common algorithms and programming principles utilizing the standard library distributed with Python. Upon completion, students should be able to design, code, test, and debug Python language programs.

### CSC-122: Python Application Development

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CSC-121: Python Programming](#)

**Session Cycle**

Summer Only

**Description**

This course introduces the use of frameworks to build web-enabled applications. Emphasis is placed on URL routing, output format templating, database manipulation and security. Upon completion, students should be able to create simple web-enabled applications with a graphical user interface using the Python language.

# Courses

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## CSC-134: C++ Programming

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[MAT-025](#) or [MAT-035](#)

**Session Cycle**

Spring Only

**Description**

This course introduces computer programming using the C++ programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## CSC-139: Visual BASIC Programming

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently) and

[MAT-025](#) or [MAT-035](#) or [MAT-110](#) or [MAT-045](#) (can be taken previously or concurrently)

**Session Cycle**

Fall Only

**Description**

This course introduces computer programming using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level.

## CSC-151: JAVA Programming

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[MAT-025](#) or [MAT-035](#)

**Session Cycle**

Spring Only

**Description**

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion students should be able to design, code, test, debug JAVA language programs.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## CSC-153: C# Programming

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[MAT-025](#) or [MAT-035](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces computer programming using the C# programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment at the beginning level.

# Courses

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## CSC-154: Software Development

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the fundamentals of software development. Emphasis is placed on the full spectrum of team software development methodologies, software development project management, version control, issue tracking, regression testing, automated build and deployment. Upon completion, students should be able to work in a team environment and apply software development methodologies and software quality assurance principles.

## CSC-211: Ethical Hacking With Python I

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CSC-121: Python Programming](#)

**Session Cycle**

Spring Only

**Description**

This course introduces students to investigative ethical hacking techniques using the Python programming language. Emphasis is placed on using Python in gaining system access, cryptography, reconnaissance, enumeration, and buffer overflows. Upon completion, students should be able to understand system vulnerabilities and applications of the Python computer programming language to ethical hacking.

## CSC-221: Advanced Python Programming

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[CSC-121: Python Programming](#)

**Session Cycle**

Spring Only

**Description**

This course introduces advanced computer programming using the Python programming language. Emphasis is placed on the advanced programming concepts including advanced algorithms and programming principles utilizing standard and third party library tools. Upon completion, students should be able to design, code, test, and debug advanced Python language programs.

## CSC-222: Ethical Hacking for Mobile Devices Using Python

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CSC-121: Python Programming](#)

**Session Cycle**

Fall & Spring

**Description**

This course introduces students to mobile ethical hacking techniques using the Python programming language. Emphasis is placed on mobile device attacks, scanning, maintaining access, covering tracks, malware delivery, password cracking, and keylogging with Python. Upon completion, students should be able to evaluate and mitigate system vulnerabilities and threats on mobile devices using the Python computer programming language.

# Courses

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## CSC-227: Cloud Application Development

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CTI-141: Cloud and Storage Concepts](#)

**Session Cycle**

Fall Only

**Description**

This course introduces how to build, deploy, host, and manage applications using cloud technologies. Topics include building cloud applications using cloud toolsets, defining and managing service models, storage fundamentals, secure backup system and database programming. Upon completion, students should be able to develop and host cloud applications, as well as design and develop services that access local and remote data from various data sources.

## Computer Technology Integration

### CTI-110: Web, Programming, and Database Foundation

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the introduction of the tools and resources available to students in programming, mark-up language and services on the Internet. Topics include standard mark-up language Internet services, creating web pages, using search engines, file transfer programs; and database design and creation with DBMS products. Upon completion students should be able to demonstrate knowledge of programming tools, deploy a web-site with mark-up tools, and create a simple database table.

### CTI-120: Network and Security Foundation

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course introduces students to the Network concepts, including networking terminology and protocols, local and wide area networks, and network standards. Emphasis is placed on securing information systems and the various implementation policies. Upon completion, students should be able to perform basic tasks related to networking mathematics, terminology, media and protocols.

### CTI-141: Cloud and Storage Concepts

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces cloud computing and storage concepts. Emphasis is placed on cloud terminology, virtualization, storage networking and access control. Upon completion, students should be able to perform tasks related to installation, configuration and management of cloud storage systems.

### CTI-240: Virtualization Administration I

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[NOS-110: Operating Systems Concepts](#)

**Session Cycle**

Fall Only

**Description**

This course covers datacenter virtualization concepts. Topics include data storage, virtual network configuration, virtual machine and virtual application deployment. Upon completion, students should be able to perform tasks related to virtual machine and hypervisor installation and configuration.

# Courses

## CTI-289: Computer Technology Integration Capstone Project

**Credits** 3

**Lab** 6

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[CTI-110](#), [CTI-120](#), and [CTS-115](#)

**Session Cycle**

Fall Only

**Fee** \$10

**Description**

This course provides students an opportunity to complete a significant integrated technology project from the design phase through implementation with minimal instructor support. Emphasis is placed on technology policy, process planning, procedure definition, systems architecture, and security issues to create projects for the many areas in which computer technology is integrated. Upon completion, students should be able to create, implement, and support a comprehensive technology integration project from the planning and design phase through implementation.

## Cosmetology

### Program Description

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. Cosmetologists offer a wide range of beauty services, such as shampooing, cutting, coloring, and styling of hair. They may advise clients on how to care for their hair at home. In addition, cosmetologists may be trained to give manicures, pedicures, and scalp and facial treatments; provide makeup analysis; and clean and style wigs and hairpieces.

Coursework in both the 1500 clock hour diploma and 1200 clock hour certificate program includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multicultural practices, business/computer principles, product knowledge, and other selected topics. The program is fully approved by the North Carolina State Board of Cosmetic Arts, and it provides a simulated salon environment that enables students to develop manipulative skills. Students may begin in fall or spring semesters.

Coursework in the 48 SHC diploma program includes all required cosmetology classes, live model

performances required by the State Board of Cosmetic Arts, and three additional courses. A study skills course promotes personal development essential for success, an English course enhances writing and speaking skills for the workplace, and a psychology course introduces basic principles of the subject as they apply to daily life and the job. Upon passing the State Board licensing exam, a graduate is a fully licensed cosmetologist.

The 32 SHC certificate program includes all required cosmetology classes and live model performances required by the State Board of Cosmetic Arts. Upon passing the State Board licensing exam, students completing the certificate are licensed as apprentices and must complete 960 clock hours (equivalent to six months of working 40 hours per week) within a year in a professional salon working under the direct supervision of a (one) licensed cosmetologist.

### Admission Criteria

Admission to this program requires that students be high school graduates or have a recognized equivalency. In addition, students must have satisfactory placement test scores or coursework verifying that they have completed ENG-002 in order to begin cosmetology courses.

### Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to design and restructure hair within a safe, sanitized, and multicultural environment.
- Demonstrate an ability to recall cosmetology and esthetics theory and clinical information in order to successfully complete the North Carolina State Board of Cosmetic Arts Licensure Exam.
- Demonstrate knowledge and understanding with regard to increasing sales and customer volume within a salon.

### Career Opportunities

Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in:

- beauty salons
- barber shops
- nail salons
- day and resort spas
- nursing and other residential care homes.
- Almost one-half of all cosmetologists are self-employed.

# Courses

## Contact Information

Associate Dean of Career Programs  
252-638-7372

Dean of Career Programs  
252-638-4550

Admissions Office  
252-638-7430

## COS-111: Cosmetology Concepts I

**Credits** 4

**Lab** 0

**Lecture** 4

**Clinical/WkExp** 0

**State Corequisites**

[COS-112: Salon I](#)

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Fall & Spring

**Description**

This course introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics. Upon completion, students should be able to safely and competently apply cosmetology concepts in the salon setting.

## COS-112: Salon I

**Credits** 8

**Lab** 24

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[COS-111: Cosmetology Concepts I](#)

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Fall & Spring

**Fee** \$40

**Description**

This course introduces basic salon services. Topics include scalp treatments, shampooing, rinsing, hair color, design, haircutting, permanent waving, pressing, relaxing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate salon services.

## COS-113: Cosmetology Concepts II

**Credits** 4

**Lab** 0

**Lecture** 4

**Clinical/WkExp** 0

**State Prerequisites**

[COS-111](#) and [COS-112](#)

**Session Cycle**

Fall & Spring

**Description**

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

## COS-114: Salon II

**Credits** 8

**Lab** 24

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[COS-111](#) and [COS-112](#)

**Session Cycle**

Fall & Spring

**Fee** \$40

**Description**

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

## COS-115: Cosmetology Concepts III

**Credits** 4

**Lab** 0

**Lecture** 4

**Clinical/WkExp** 0

**State Prerequisites**

[COS-111](#) and [COS-112](#)

**Session Cycle**

Fall & Spring

**Description**

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

# Courses

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## **COS-116: Salon III**

**Credits** 4

**Lab** 12

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[COS-111](#) and [COS-112](#)

**Session Cycle**

Fall & Spring

**Fee** \$40

**Description**

This course provides comprehensive experience in a simulated salon setting. Emphasis is placed on intermediate-level of skin care, manicuring, scalp treatments, shampooing, hair color, design, haircutting, chemical restructuring, pressing, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

## **COS-117: Cosmetology Concepts IV**

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[COS-111](#) and [COS-112](#)

**Session Cycle**

Summer Only

**Description**

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements.

## **COS-118: Salon IV**

**Credits** 7

**Lab** 21

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[COS-111](#) and [COS-112](#)

**Session Cycle**

Summer Only

**Fee** \$40

**Description**

This course provides advanced experience in a simulated salon setting. Emphasis is placed on efficient and competent delivery of all salon services in preparation for the licensing examination and employment. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology Licensing Examination and meet entry-level employment requirements.

## **COS-119: Esthetics Concepts I**

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#)

**Local Corequisites**

[COS-120: Esthetics Salon I](#)

**Session Cycle**

Fall & Spring

**Fee** \$30

**Description**

This course covers the concepts of esthetics. Topics include orientation, anatomy, physiology, hygiene, sterilization, first aid, chemistry, basic dermatology, and professional ethics. Upon completion, students should be able to demonstrate an understanding of the concepts of esthetics and meet course requirements.

# Courses

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## COS-120: Esthetics Salon I

**Credits** 6

**Lab** 18

**Lecture** 0

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#)

**Local Corequisites**

[COS-119: Esthetics Concepts I](#)

**Session Cycle**

Fall & Spring

**Fee** \$30

**Description**

This course covers the techniques of esthetics in a comprehensive experience in a simulated salon setting. Topics include client consultation, facials, body treatments, hair removal, make-up applications, and color analysis. Upon completion, students should be able to safely and competently demonstrate esthetic services on clients in a salon setting.

## COS-125: Esthetics Concepts II

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Local Corequisites**

[COS-126: Esthetics Salon II](#)

**Session Cycle**

Fall Only

**Fee** \$30

**Description**

This course covers more comprehensive esthetics concepts. Topics include nutrition, business management, makeup, and color analysis. Upon completion students should be able to demonstrate an understanding of the advanced esthetics concepts and meet course requirements.

## COS-126: Esthetics Salon II

**Credits** 6

**Lab** 18

**Lecture** 0

**Clinical/WkExp** 0

**Local Corequisites**

[COS-125: Esthetics Concepts II](#)

**Session Cycle**

Fall Only

**Fee** \$30

**Description**

This course provides experience in a simulated esthetics setting. Topics include machine facials, aromatherapy, surface manipulation in relation to skin care, electricity, and apparatus. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology licensing examination for Estheticians.

## COS-240: Contemporary Design

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[COS-111](#) and [COS-112](#)

**Session Cycle**

Spring Only

**Description**

This course covers methods and techniques for contemporary designs. Emphasis is placed on contemporary designs and other related topics. Upon completion, students should be able to demonstrate and apply techniques associated with contemporary design.

## Criminal Justice

### CJC-111: Introduction to Criminal Justice

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

### CJC-112: Criminology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response.

### CJC-113: Juvenile Justice

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.

### CJC-120: Interviews/Interrogations

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers basic and special techniques employed in criminal justice interviews and interrogations. Emphasis is placed on the interview/interrogation process, including interpretation of verbal and physical behavior and legal perspectives. Upon completion, students should be able to conduct interviews/interrogations in a legal, efficient, and professional manner and obtain the truth from suspects, witnesses, and victims.

### CJC-121: Law Enforcement Operations

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## **CJC-131: Criminal Law**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

### **Description**

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.

## **CJC-132: Court Procedure & Evidence**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

### **Description**

This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence.

## **CJC-141: Corrections**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

### **Description**

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## **CJC-151: Introduction to Loss Prevention**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

### **Description**

This course introduces the concepts and methods related to commercial and private security systems. Topics include the historical, philosophical, and legal basis of security, with emphasis on security surveys, risk analysis, and associated functions. Upon completion, students should be able to demonstrate and understand security systems, risk management, and the laws relative to loss prevention.

# Courses

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## **CJC-160: Terrorism: Underlying Issues**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course identifies the fundamental reasons why America is a target for terrorists, covering various domestic/international terrorist groups and ideologies from a historical aspect. Emphasis is placed upon recognition of terrorist crime scene; weapons of mass destruction; chemical, biological, and nuclear terrorism; and planning considerations involving threat assessments. Upon completion, students should be able to identify and discuss the methods used in terrorists' activities and complete a threat assessment for terrorists' incidents.

## **CJC-161: Introduction to Homeland Security**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

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.

## **CJC-212: Ethics & Community Relations**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

## **CJC-214: Victimology**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the study of victims. Emphasis is placed on roles/characteristics of victims, victim interaction with the criminal justice system and society, current victim assistance programs, and other related topics. Upon completion, students should be able to discuss and identify victims, the uniqueness of victims' roles, and current victim assistance programs.

## **CJC-221: Investigative Principles**

**Credits** 4

**Lab** 2

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.

# Courses

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## CJC-222: Criminalistics

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.

## CJC-223: Organized Crime

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the evolution of traditional and non-traditional organized crime and its effect on society and the criminal justice system. Topics include identifying individuals and groups involved in organized crime, areas of criminal activity, legal and political responses to organized crime, and other related topics. Upon completion, students should be able to identify the groups and activities involved in organized crime and the responses of the criminal justice system.

## CJC-231: Constitutional Law

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts.

## CJC-232: Civil Liability

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[CJC-231: Constitutional Law](#)

**Session Cycle**

Fall Only

**Description**

This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues.

## CJC-264: Policing in the 21st Century

**Credits** 3

**Lecture** 3

**Description**

This course is designed to examine the issues and challenges facing law enforcement today through the study of real-world scenarios. Topics include professionalism, leadership, communication, diversity, and community relationships. Upon completion, students should be able to exhibit leadership abilities, demonstrate the importance of verbal and non-verbal communication, and display the professionalism and decorum required of public safety personnel.

# Courses

## Database Management Technology

### DBA-110: Database Concepts

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CIS-110](#) or [CTI-110](#)

**Session Cycle**

Fall Only

**Description**

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms.

### DBA-120: Database Programming I

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CTI-110: Web, Programming, and Database Foundation](#)

**Session Cycle**

Fall & Spring

**Description**

This course is designed to develop SQL programming proficiency. Emphasis is placed on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be able to write programs which create, update, and produce reports.

### DBA-223: MySQL Database Programming II

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[DBA-120: Database Programming I](#)

**Session Cycle**

Fall Only

**Description**

This course is designed to enhance programming skills developed in DBA 120. Topics include application development with GUI front-ends and embedded programming. Upon completion, students should be able to develop a MySQL DBMS application which includes a GUI front-end and report generation.

### DBA-240: Database Analysis and Design

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course is an exploration of the established and evolving methodologies for the analysis, design, and development of a database system. Emphasis is placed on business data characteristics and usage, managing database projects, prototyping and modeling, and CASE tools. Upon completion, students should be able to analyze, develop, and validate a database implementation plan.

## Drafting

### DFT-111: Technical Drafting I

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

This course introduces basic drafting skills, equipment, and applications. Topics include sketching, measurements, lettering, dimensioning, geometric construction, orthographic projections and pictorials drawings, sections, and auxiliary views. Upon completion, students should be able to understand and apply basic drawing principles and practices.

### DFT-151: CAD I

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

This course introduces CAD software as a drawing tool. Topics include drawing, editing, file management, and plotting. Upon completion, students should be able to produce and plot a CAD drawing.

### DFT-152: CAD II

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$35

**Description**

This course introduces extended CAD applications. Emphasis is placed upon intermediate applications of CAD skills. Upon completion, students should be able to use extended CAD applications to generate and manage drawings.

### DFT-153: CAD III

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

DFT-152: CAD II

**Session Cycle**

Fall Only

**Fee** \$35

**Description**

This course introduces advanced CAD applications. Emphasis is placed upon advanced applications of CAD skills. Upon completion, students should be able to use advanced CAD applications to generate and manage data.

### DFT-154: Intro to Solid Modeling

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course is an introduction to basic three-dimensional solid modeling and design software. Topics include basic design, creation, editing, rendering and analysis of solid models, and creation of multiview drawings. Upon completion, students should be able to use design techniques to create, edit, render and generate a multiview drawing.

### DFT-170: Engineering Graphics

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces basic engineering graphics skills and applications. Topics include sketching, selection and use of current methods and tools, and the use of engineering graphics applications. Upon completion, students should be able to demonstrate an understanding of basic engineering graphics principles and practices.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## DFT-189: Emerging Technologies in CAD

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course provides an opportunity to explore new and emerging technologies related to Computer-Aided Drafting (CAD). Emphasis is placed on introducing a selected CAD technology or topic, identified as being "new" or "emerging," from a variety of drafting disciplines. Upon completion, students should be able to demonstrate an understanding of and practical skill in the use of the CAD technology studied.

## DFT-253: CAD Data Management

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[DFT-151: CAD I](#)

**Session Cycle**

Summer & Fall

**Description**

This course covers engineering document management techniques. Topics include efficient control of engineering documents, manipulation of CAD drawing data, generation of bill of materials, and linking to spreadsheets or databases. Upon completion, students should be able to utilize systems for managing CAD drawings, extract data from drawings, and link data to spreadsheets or database applications.

## DFT-254: Intermediate Solid Modeling & Rendering

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[DFT-154: Intro to Solid Modeling](#)

**Session Cycle**

Spring Only

**Description**

This course presents a continuation of basic three-dimensional solid modeling and design software. Topics include advanced study of parametric design, creation, editing, rendering and analysis of solid model assemblies, and multiview drawing generation. Upon completion, students should be able to use parametric design techniques to create and analyze the engineering design properties of a model assembly.

## DFT-259: CAD Project

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course is a capstone course experience for programs with a focus in computer-aided design. Emphasis is placed on the use of design principles and computer technology in planning, managing, and completing a design project. Upon completion, students should be able to plan and produce engineering documents of a design project, including solid models, working drawings, Bills of Material, annotations, and spreadsheets.

# Courses

## Drama/Theatre

### DRA-111: Theatre Appreciation

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

#### Description

This course provides a study of the art, craft, and business of the theatre. Emphasis is placed on the audience's appreciation of the work of the playwright, director, actor, designer, producer, and critic. Upon completion, students should be able to demonstrate a vocabulary of theatre terms and to recognize the contributions of various theatre artists.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts. This is a Universal General Education Transfer Component (UGETC) course.*

## Economics

### ECO-251: Principles of Microeconomics

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

#### Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently) and

[MAT-025](#) or [MAT-035](#) or [MAT-110](#) or [MAT-045](#) (can be taken previously or concurrently)

#### Description

This course introduces economic analysis of individual, business, and industry in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

**This is a Universal General Education Transfer Component (UGETC) course.**

### ECO-252: Principles of Macroeconomics

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

#### Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently) and

[MAT-025](#) or [MAT-035](#) or [MAT-110](#) or [MAT-045](#) (can be taken previously or concurrently)

#### Session Cycle

Contact Program Advisor

#### Description

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

**This is a Universal General Education Transfer Component (UGETC) course.**

## Education

### EDU-119: Intro to Early Childhood Education

**Credits** 4

**Lab** 0

**Lecture** 4

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course introduces the foundations of culturally responsive, equitable and inclusive early childhood education, planning intentional developmentally appropriate experiences, learning activities, and teaching strategies for indoor and outdoor environments for all young children, guidance techniques, and professionalism. Topics include theoretical foundations, national early learning standards, NC Foundations for Early Learning and Development, state regulations, program types, career options, professionalism, ethical conduct, quality inclusive environments, guidance techniques, and curriculum responsive to the needs of each child/family. Upon completion, students should be able to implement developmentally appropriate environments, guidance techniques, schedules, and teaching strategies across developmental domains to support culturally, linguistically, and ability diverse children and their families in inclusive settings, and design a personal career/professional development plan.

### EDU-125: Sign Language for Educators

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course is designed to provide students an introduction to sign language systems and technology in educational environments. Topics include receptive and expressive sign language usage including English-based systems, American Language, deaf culture and identity, assistive technology, and use of sign language as a classroom management strategy. Upon completion, students should be able to communicate at an introductory level using sign language, describe aspects of deaf culture and identity, and identify assistive technology for children with hearing loss in the education system.

### EDU-131: Child, Family, and Community

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers the development of partnerships among culturally, linguistically and ability diverse families, children, schools and communities through the use of evidence-based strategies. Emphasis is placed on developing skills and identifying benefits for establishing and supporting respectful relationships between diverse families, programs/schools, and community agencies/resources reflective of the NAEYC Code of Ethical Conduct and the Code of Ethics for North Carolina Educators. Upon completion, students should be able to identify appropriate relationship building strategies between diverse families, children birth through adolescence, schools, and communities and demonstrate a variety of communication skills including appropriate use of technology to support every child.

### EDU-144: Child Development I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[EDU-234: Infants, Toddlers, and Twos](#)

**Session Cycle**

Spring Only

**Description**

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse.

# Courses

## EDU-145: Child Development II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[EDU-146: Child Guidance](#)

**Session Cycle**

Spring Only

**Description**

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse.

## EDU-146: Child Guidance

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[EDU-145: Child Development II](#)

**Session Cycle**

Spring Only

**Description**

This course introduces evidence-based strategies to build nurturing relationships with each child by applying principles and practical techniques to facilitate developmentally appropriate guidance. Topics include designing responsive/supportive learning environments, cultural, linguistic and socio-economic influences on behavior, appropriate expectations, the importance of communication with children/families including using technology and the use of formative assessments in establishing intentional strategies for children with unique needs. Upon completion, students should be able to demonstrate direct/indirect strategies to encourage social skills, self-regulation, emotional expression and positive behaviors while recognizing the relationship between children's social, emotional and cognitive development.

## EDU-151: Creative Activities

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces developmentally supportive, diverse, equitable, and inclusive creative learning environments with attention to divergent thinking, creative problem-solving, evidence-based teaching practices, and open-ended learning materials and activities that align with the NC Foundations for Early Learning and Development. Emphasis is placed on best practices providing process-driven culturally diverse, learning experiences in art, music, creative movement, dance, and dramatic play integrated across all domains and academic content in indoor/outdoor environments for every young child age birth through age eight. Upon completion, students should be able to observe, examine, create, adapt, and advocate for developmentally appropriate creative learning materials, experiences, and environments for children that are culturally, linguistically, and ability diverse.

## EDU-153: Health, Safety, and Nutrition

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers promoting and maintaining the health and well-being of every child. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, health benefits of active play, recognition and reporting of abuse/neglect, and state regulations. Upon completion, students should be able to apply knowledge of NC Foundations for Early Learning and Development for health, safety, nutritional needs and safe learning environments.

# Courses

## EDU-157: Active Play

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces physical activities to promote the development of children with diverse abilities, birth through middle childhood. Topics include active play, outdoor learning, design of the environment, development of play skills, loose parts play, nature play, risk/benefit assessment, advocacy, and family/community connection. Upon completion, students should be able to discuss the stages of play, the role of teachers in play, active play environments, advocate for the child's right to play, and plan and assess culturally responsive, equitable and developmentally appropriate experiences using NC Foundations for Early Learning and Development.

## EDU-184: Early Childhood Introductory Practicum

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[EDU-119: Intro to Early Childhood Education](#)

**Session Cycle**

Fall Only

**Description**

This course introduces students to early childhood settings and applying skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children, assisting in the implementation of developmentally appropriate, culturally responsive, equitable, and ability diverse activities in indoor/outdoor environments for young children, supporting/engaging families, and modeling reflective/professional practices based on national/state guidelines. Upon completion, students should be able to implement respectful/reciprocal relationships with children and families, design, implement, and adapt developmentally appropriate activities, plans, and daily routines that align with NC Foundations for Early Learning and Development and demonstrate ethical/professional behaviors as indicated by assignments and onsite/virtual faculty assessments.

## EDU-187: Teaching and Learning for All

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces students to knowledge, concepts, and best practices needed to provide developmentally appropriate, effective, inclusive, and culturally responsive educational experiences in the classroom. Topics include growth and development, learning theory, student motivation, teaching diverse learners, classroom management, inclusive environments, student-centered practices, instructional strategies, teaching methodologies, observation/assessment techniques, educational planning, reflective practice, collaboration, cultural competence, ethics, professionalism, and leadership. Upon completion, students should be able to identify the knowledge, skills, roles, and responsibilities of an effective educator as defined by state and national professional teaching standards.

## EDU-216: Foundations of Education

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course introduces the examination of the American educational systems and the teaching profession. Topics include the historical and philosophical influences on education, various perspectives on educational issues, and experiences in birth through grade 12 classrooms. Upon completion, students should be able to reflect on classroom observations, analyze the different educational approaches, including classical/traditional and progressive, and have knowledge of the various roles of educational systems at the federal, state and local level.

# Courses

## EDU-221: Children With Exceptionalities

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

Set 1: [EDU-144](#) and [EDU-145](#)

Set 2: PSY-244 and PSY-245

**Session Cycle**

Fall Only

**Description**

This course covers atypical patterns of child development, inclusive/diverse settings, evidenced-based educational/family plans, differentiated instruction, adaptive materials, and assistive technology. Emphasis is placed on the characteristics of exceptionalities and delays, early intervention/special education, transitions, observation, developmental screening, formative assessment of children, and collaborating with families and community partners. Upon completion, students should be able to recognize diverse abilities, describe the referral process, identify community resources, explain the importance of collaboration with families/professionals, and develop appropriate strategies/adaptations to support children in all environments with best practices as defined by laws, policies and the NC Foundations for Early Learning and Development.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement at select institutions only. Craven CC does not use this course in the AA, AFA or AS degree programs.*

## EDU-234: Infants, Toddlers, and Twos

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[EDU-119: Intro to Early Childhood Education](#)

**State Corequisites**

[EDU-234A: Infants, Toddlers, and Twos Lab](#)

**Local Corequisites**

[EDU-144: Child Development I](#)

**Session Cycle**

Spring Only

**Description**

This course covers the development of high-quality, individualized, responsive/engaging relationships and experiences for infants, toddlers, and twos. Emphasis is placed on typical and atypical child development, working with diverse families to provide positive, supportive, and engaging early learning activities and interactions through field experiences and the application of the NC Foundations for Early Learning and Development. Upon completion, students should be able to demonstrate responsive curriculum planning, respectful relationships and exposure to a variety of developmentally appropriate experiences/materials that support a foundation for healthy development and growth of culturally, linguistically and ability diverse children birth to 36 months.

# Courses

## EDU-234A: Infants, Toddlers, and Twos Lab

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[EDU-234: Infants, Toddlers, and Twos](#)

**Session Cycle**

Fall Only

**Description**

This course focuses on practical applications that support the healthy development of children birth to 36 months by applying principles of quality, individualized, responsive/engaging relationships and experiences. Emphasis is placed on typical and atypical child development, positive early learning experiences, supporting and engaging diverse families, providing safe, warm and nurturing interactions, and the application of the NC Foundations for Early Learning and Development. Upon completion, students should be able to demonstrate the ability to engage in respectful, responsive care to support a foundation for healthy development and growth of children birth to 36 months culturally, linguistically, and ability diverse through responsive planning and positive exposure to a variety of experiences/materials.

## EDU-235: School-Age Development and Programs

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course includes developmentally appropriate practices in group settings for school-age children. Emphasis is placed on principles of development, environmental planning, and positive guidance techniques and program development. Upon completion, students should be able to discuss developmental principles for culturally, linguistically, and ability diverse children ages five to twelve and plan and implement developmentally appropriate programs and activities.

## EDU-250: Teacher Licensure Preparation

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ENG-111](#) and [MAT-143](#) or [MAT-152](#) or [MAT-171](#)

**Session Cycle**

Spring Only

**Description**

This course provides information and strategies necessary for transfer to a teacher licensure program at a senior institution. Topics include entry level teacher licensure exam preparation, performance based assessment systems, requirements for entry into teacher education programs, the process to become a licensed teacher in North Carolina, and professionalism including expectations within the field of education. Upon completion, students should be able to utilize educational terminology and demonstrate knowledge of teacher licensure processes including exam preparation, technology based portfolio assessment, and secondary admissions processes to the school of education at a senior institution.

## EDU-259: Curriculum Planning

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[EDU-119: Intro to Early Childhood Education](#)

**Session Cycle**

Fall Only

**Description**

This course is designed to focus on using content knowledge to build effective developmentally appropriate approaches that are culturally responsive, equitable, and ability diverse for young children. Topics include components of curriculum, a variety of curriculum models, authentic observation and assessment, and planning developmentally appropriate experiences and indoor/outdoor environments aligned with the NC Foundations for Early Learning and Development. Upon completion, students should be able to understand, evaluate, and use developmentally appropriate curriculum to plan for the individual/group needs of young children.

# Courses

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## EDU-261: Early Childhood Administration I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Corequisites**

[EDU-119: Intro to Early Childhood Education](#)

**Session Cycle**

Fall & Spring

**Description**

This course introduces principles and practices essential to preparing and supporting child care administrators. Topics include program philosophy, policies and procedures, NC Child Care Law and Rules, business planning, personnel and fiscal management, and NAEYC Code of Ethical Conduct Supplement for Early Childhood Program Administration. Upon completion, students should be able to articulate a developmentally appropriate program philosophy, locate current state licensing regulations, analyze a business plan and examine comprehensive program policies and procedures.

## EDU-262: Early Childhood Administration II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[EDU-119: Intro to Early Childhood Education](#)

[EDU-261: Early Childhood Administration I](#)

**Session Cycle**

Fall & Spring

**Description**

This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs.

## EDU-279: Literacy Development and Instruction

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course is designed to provide students with concepts and skills of literacy development, instructional methods/materials and assessment techniques needed to provide scientifically-based, systematic reading and writing instruction into educational practice. Topics include literacy concepts, reading and writing development, developmentally appropriate pedagogy, culturally-responsive instruction, standards-based outcomes, lesson planning, formative/summative assessment, recognizing reading difficulties, research-based interventions, authentic learning experiences, classroom implementation, and reflective practice. Upon completion, students should be able to plan, implement, assess, evaluate, and demonstrate developmentally appropriate literacy instruction aligned to the NC Standard Course of Study and other state and national standards.

## EDU-280: Language and Literacy Experiences

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course provides evidence-based strategies for enhancing language and literacy experiences that align with NC Foundations for Early Learning and Development. Topics include developmental sequences for children's emergent receptive and expressive language, print concepts, appropriate observations/assessments, literacy enriched environments, quality selection of diverse literature, interactive media, and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate language and literacy experiences for children who are culturally, linguistically and ability diverse.

# Courses

## EDU-284: Early Childhood Capstone Practicum

**Credits** 4

**Lab** 9

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

EDU-119: Intro to Early Childhood Education

EDU-144: Child Development I

EDU-145: Child Development II

EDU-146: Child Guidance

EDU-151: Creative Activities

**Session Cycle**

Spring Only

**Description**

This course is designed to allow students to demonstrate acquired skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/engaging families; and modeling reflective and professional practices based on national and state guidelines. Upon completion, students should be able to apply NC Foundations for Early Learning and Development to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors, including the use of appropriate technology, as indicated by assignments and onsite faculty assessments.

## EDU-288: Advanced Issues in Early Childhood, Education

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers advanced topics and issues in early childhood. Emphasis is placed on current advocacy issues, emerging technology, professional growth experiences, and other related topics. Upon completion, students should be able to list, discuss, and explain advanced current topics and issues in early childhood education.

## Electrical

### ELC-113: Residential Wiring

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course introduces the care/usage of tools and materials used in residential electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical print reading; planning, layout; and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon completion, students should be able to properly install conduits, wiring, and electrical distribution equipment associated with residential electrical installations.

### ELC-117: Motors and Controls

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Fee** \$35

**Description**

This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits.

# Courses

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## ELC-131: Circuit Analysis I

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

This course introduces DC and AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, verify, and analyze DC/AC circuits; and properly use test equipment.

## ELC-135: Electrical Machines

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course covers magnetic circuits, transformers, DC/AC machines, and the three-phase circuit fundamentals including power factor. Topics include magnetic terms and calculations, transformer calculations based on primary or secondary equivalent circuits, and regulation and efficiency calculations. Upon completion, students should be able to perform regulation and efficiency calculations for DC/AC machine circuits.

## ELC-136: Electrical Machines II

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ELC-131: Circuit Analysis I](#)

**Session Cycle**

Fall Only

**Description**

This course covers DC/AC machine fundamentals including applications and control. Topics include control devices and induction single and polyphase AC motors, DC motors, stepper, and special purpose motors. Upon completion, students should be able to perform regulation and efficiency calculations and apply motor theory to practical control applications.

## ELC-138: DC Circuit Analysis

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

This course introduces DC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, and analyze DC circuits; and properly use test equipment.

## ELC-213: Instrumentation

**Credits** 4

**Lab** 2

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers the fundamentals of instrumentation used in industry. Emphasis is placed on electric, electronic, and other instruments. Upon completion, students should be able to install, maintain, and calibrate instrumentation.

# Electronics

## ELN-131: Analog Electronics I

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$35

**Description**

This course introduces the characteristics and applications of semiconductor devices and circuits. Emphasis is placed on analysis, selection, biasing, and applications. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog circuits using appropriate techniques and test equipment.

# Courses

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## ELN-132: Analog Electronics II

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Fee** \$35

### **Description**

This course covers additional applications of analog electronic circuits with an emphasis on analog and mixed signal integrated circuits (IC). Topics include amplification, filtering, oscillation, voltage regulation, and other analog circuits. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog electronic circuits using appropriate techniques and test equipment.

## ELN-133: Digital Electronics

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

### **Description**

This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, medium scale integration (MSI) and large scale integration (LSI) circuits, analog to digital (AD) and digital to analog (DA) conversion, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment.

## ELN-231: Industrial Controls

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

### **Description**

This course introduces the fundamental concepts of control of rotating machinery and associated peripheral devices. Topics include rotating machine theory, ladder logic, electromechanical and solid state relays, motor controls, pilot devices, three-phase power systems, and other related topics. Upon completion, students should be able to interpret schematics and demonstrate an understanding of electromechanical and electronic control of rotating machinery.

## ELN-232: Introduction to Microprocessors

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$35

### **Description**

This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.

## ELN-234: Communication Systems

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$35

### **Description**

This course introduces the fundamentals of electronic communication systems. Topics include the frequency spectrum, electrical noise, modulation techniques, characteristics of transmitters and receivers, and digital communications. Upon completion, students should be able to interpret analog and digital communication circuit diagrams, analyze transmitter and receiver circuits, and use appropriate communication test equipment.

# Courses

## ELN-258: FCC Commercial License Prep

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course provides a review of communications technology and federal regulation covered on the FCC General Class Commercial License examination. Topics include transmitters, receivers, modulation types, antennas, transmission lines, wave propagation, troubleshooting, and FCC regulations. Upon completion, students should be able to demonstrate knowledge of the materials covered and be prepared for the FCC General Class Commercial License examination.

## ELN-260: Prog Logic Controllers

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

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.

## Engineering

### EGR-150: Intro to Engineering

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course is an overview of the engineering profession. Topics include goal setting and career assessment, ethics, public safety, the engineering method and design process, written and oral communication, interpersonal skills and team building, and computer applications. Upon completion, students should be able to understand the engineering process, the engineering profession, and utilize college resources to meet their educational goals.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

### EGR-220: Engineering Statics

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[PHY-251: General Physics I](#)

**State Corequisites**

[MAT-272: Calculus II](#)

**Session Cycle**

Spring Only

**Description**

This course introduces the concepts of engineering based on forces in equilibrium. Topics include concentrated forces, distributed forces, forces due to friction, and inertia as they apply to machines, structures, and systems. Upon completion, students should be able to solve problems which require the ability to analyze systems of forces in static equilibrium.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

# Courses

## English

### ENG-002: Transition English

**Credits** 3

**Lab** 6

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

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.

### ENG-011: Writing and Inquiry Support

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-111: Writing and Inquiry](#)

**Session Cycle**

ALL

**Description**

This course is designed to support students in the development of skills necessary for success in ENG 111 by complementing, supporting, and reinforcing ENG 111 Student Learning Outcomes. Emphasis is placed on developing a growth mindset, expanding skills for use in active reading and writing processes, recognizing organizational relationships within texts from a variety of genres and formats, and employing appropriate technology when reading and composing texts. Upon completion, students should be able to apply active reading strategies to college-level texts and produce unified, well-developed writing using standard written English.

### ENG-025: College English Skills

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course provides the skills necessary for success in college English courses. Topics include reading and writing processes and strategies, such as critical thinking, text analysis, idea development, and application of writing conventions. Upon completion, students should be able to analyze readings and produce unified, coherent, well-developed paragraphs and essays using appropriate document design and standard written English while developing positive academic habits, learning strategies, and a growth mindset.

### ENG-045: English Skills Support

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course provides academic support for the successful completion of gateway English courses by supplementing and reinforcing classroom instruction. Emphasis is placed on developing a growth mindset, expanding skills in active reading and writing processes, applying editing and revision strategies, exercising standard writing conventions through contextualized instruction, and ethically using appropriate technology when reading and writing. Upon completion, students should be able to apply active reading strategies to college-level texts and produce unified, well-developed essays using standard written English.

# Courses

## ENG-111: Writing and Inquiry

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

State Corequisites

[ENG-011: Writing and Inquiry Support](#)

Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

Session Cycle

ALL

Description

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English.

*This course has been approved for transfer under the Comprehensive Articulation Agreement as a general education course in English Composition. This is a Universal General Education Transfer Component (UGETC) course.*

## ENG-112: Writing and Research in the Disciplines

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

State Prerequisites

[ENG-111: Writing and Inquiry](#)

Session Cycle

ALL

Description

This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines.

*This course has been approved for transfer under the Comprehensive Articulation Agreement as a general education course in English Composition. This is a Universal General Education Transfer Component (UGETC) course.*

## ENG-114: Professional Research & Reporting

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

State Prerequisites

[ENG-111: Writing and Inquiry](#)

Session Cycle

ALL

Description

This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in English composition.*

## ENG-125: Creative Writing I

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

State Prerequisites

[ENG-111: Writing and Inquiry](#)

Session Cycle

Fall & Spring

Description

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing, fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## ENG-231: American Literature I

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

State Prerequisites

[ENG-112](#), ENG-113, or [ENG-114](#)

Session Cycle

Fall Only

Description

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Humanities/Fine Arts.*

**This is a Universal General Education Transfer Component (UGETC) course.**

## ENG-232: American Literature II

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

State Prerequisites

[ENG-112](#), ENG-113, or [ENG-114](#)

Session Cycle

ALL

Description

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Humanities/Fine Arts.*

**This is a Universal General Education Transfer Component (UGETC) course.**

## ENG-241: British Literature I

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

State Prerequisites

[ENG-112](#), ENG-113, or [ENG-114](#)

Session Cycle

ALL

Description

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Humanities/Fine Arts.*

**This is a Universal General Education Transfer Component (UGETC) course.**

## ENG-242: British Literature II

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

State Prerequisites

[ENG-112](#), ENG-113, or [ENG-114](#)

Session Cycle

ALL

Description

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Humanities/Fine Arts.*

**This is a Universal General Education Transfer Component (UGETC) course.**

# Courses

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## ENG-261: World Literature I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ENG-112](#), ENG-113, or [ENG-114](#)

**Session Cycle**

Fall & Spring

**Description**

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from their literary beginnings through the seventeenth century. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

## ENG-262: World Literature II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ENG-112](#), ENG-113, or [ENG-114](#)

**Session Cycle**

Fall Only

**Description**

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

## ENG-273: African-American Literature

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ENG-112](#), ENG-113, or [ENG-114](#)

**Session Cycle**

Spring Only

**Description**

This course provides a survey of the development of African-American literature from its beginnings to the present. Emphasis is placed on historical and cultural context, themes, literary traditions, and backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and respond to selected texts.

*This course has been approved for transfer under the CAA as a pre-major and/or elective course in Humanities/Fine Arts.*

## Entrepreneurship

### ETR-220: Innovation and Creativity

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a study of developing and enhancing individual and organizational creativity and innovation. Topics include that innovation needs to be applied to products, services, and processes to increase competitive advantages and add value to businesses. Upon completion, students should be able to apply innovation and creativity principles in the work place.

# Courses

## ETR-230: Entrepreneur Marketing

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the techniques to correctly research and define the target market to increase sales for start up businesses or to expand current businesses. Topics include how to target market and meet customers' needs with a limited budget in the early stages of the life of a start up business. Upon completion, students should be able to demonstrate an understanding of how to correctly target market for a start-up business with limited resources.

## ETR-240: Funding for Entrepreneurs

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ACC-120: Principles of Financial Accounting](#)

**Session Cycle**

Spring Only

**Description**

This course provides a focus on the financial issues and needs confronting entrepreneurs attempting to grow their businesses by attracting startup and growth capital. Topics include sources of funding including angel investors, venture capital, IPO's, private placement, banks, suppliers, buyers, partners, and the government. Upon completion, students should be able to demonstrate an understanding of how to effectively finance a business venture.

## ETR-270: Entrepreneurship Issues

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces current and emerging entrepreneurship issues and opportunities. Topics include franchising, import/export, small business taxes, legal structures, negotiations, contract management, and time management. Upon completion, students should be able to apply a variety of analytical and decision-making requirements to start a new business.

## French

### FRE-111: Elementary French I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Local Corequisites**

[FRE-181: French Lab 1](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

### FRE-112: Elementary French II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[FRE-111: Elementary French I](#)

**Local Corequisites**

[FRE-182: French Lab 2](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

# Courses

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## FRE-181: French Lab 1

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Local Corequisites**

[FRE-111: Elementary French I](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides an opportunity to enhance acquisition of the fundamental elements of the French language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## FRE-182: French Lab 2

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[FRE-181: French Lab 1](#)

**Local Corequisites**

[FRE-112: Elementary French II](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides an opportunity to enhance acquisition of the fundamental elements of the French language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## FRE-211: Intermediate French I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[FRE-112: Elementary French II](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a review and expansion of the essential skills of the French language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

## Geography

### GEO-111: World Regional Geography

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025: College English Skills](#)

**Session Cycle**

ALL

**Description**

This course introduces the regional concept which emphasizes the spatial association of people and their environment. Emphasis is placed on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

# Courses

## Geology

### GEL-111: Geology

**Credits** 4

**Lab** 2

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

ALL

**Description**

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural sciences/mathematics.*

**This course is a Universal General Education Transfer Component (UGETC) course for the AA and AFA degrees. It satisfies other General Education hours for the AS degree.**

**Competencies**

1. Explain fundamental geologic concepts including earth structure, plate tectonics, rocks and minerals, rock cycle, crustal deformation, surficial processes, earth resources and geohazards.
2. Apply the basic methods of scientific inquiry in the context of geology.
3. Recognize and quantify the operation of Earth system processes over geologic and human timescales and over local, regional and global spatial scales.
4. Manipulate, interpret and construct visualizations of geologic data using maps, graphs, and contemporary technology.
5. Demonstrate an appreciation for the societal relevance of geology and the impact of humans on the earth system.

## German

### GER-111: Elementary German I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Local Corequisites**

[GER-181: German Lab 1](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the fundamental elements of the German language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written German and demonstrate cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

### GER-112: Elementary German II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[GER-111: Elementary German I](#)

**Local Corequisites**

[GER-182: German Lab 2](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course is a continuation of GER 111 focusing on the fundamental elements of the German language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written German and demonstrate further cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

# Courses

## GER-181: German Lab 1

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Local Corequisites**

[GER-111: Elementary German I](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides an opportunity to enhance acquisition of the fundamental elements of the German language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written German and demonstrate cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## GER-182: German Lab 2

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[GER-181: German Lab 1](#)

**Local Corequisites**

[GER-112: Elementary German II](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides an opportunity to enhance acquisition of the fundamental elements of the German language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written German and demonstrate cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## GER-211: Intermediate German I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[GER-112: Elementary German II](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a review and expansion of the essential skills of the German language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

## Health

### HEA-110: Personal Health/Wellness

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course provides an introduction to basic personal health and wellness. Emphasis is placed on current health issues such as nutrition, mental health, and fitness. Upon completion, students should be able to demonstrate an understanding of the factors necessary to the maintenance of health and wellness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

# Courses

## Health Information Technology

### HIT-110: Introduction to Healthcare and HIM

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces healthcare settings and the Health Information Management (HIM) professional's role in healthcare delivery systems. Topics include health information management operations in compliance with standards, regulations and accrediting body initiatives; healthcare providers and disciplines; and electronic health records (EHRs). Upon completion, students should be able to demonstrate an understanding of health information management and healthcare organizations, professions and trends.

### HIT-112: Health Law and Ethics

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers the study of the judicial, legislative, and regulatory standards applicable to health care and health information processes. Topics include legal terminology, confidentiality, privacy, security, access and disclosure of health information, ethical implications, data stewardship, and the integrity of the legal health record. Upon completion, students should be able to apply policies, procedures and ethical standards in compliance with external forces.

### HIT-114: Health Data Systems and Standards

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers concepts and techniques for managing and maintaining all health record formats including electronic health records (EHR). Topics include structure and use of health information including data collection and analysis, data sources/sets, archival systems, as well as quality and integrity of healthcare data. Upon completion, students should be able to determine compliance of health record content and governance standards within the health organization.

### HIT-124: Professional Practice Exp II

**Credits** 1

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 3

**Session Cycle**

Spring Only

**Description**

This course provides supervised and/or simulated health information technology clinical experience in healthcare settings. Emphasis is placed on practical application of HIM functions and core curriculum concepts. Upon completion, students should be able to apply health information theory to healthcare facility practices.

### HIT-211: Diagnosis Coding and Reporting

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers diagnostic coding and sequencing utilizing the current version of the ICD code set for inpatient, outpatient and ambulatory care settings. Emphasis is placed on the rules and conventions of the ICD official coding guidelines in relation to anatomy, physiology and disease processes. Upon completion, students should be able to accurately assign and sequence diagnosis codes in compliance with the ICD official coding guidelines for reporting statistical data, patient outcomes and reimbursement methodologies.

# Courses

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## HIT-213: Inpatient Procedure Coding & Reporting

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers the application of coding guidelines as applied to the reporting of inpatient procedures. Emphasis is placed on the rules and conventions of the ICD-PCS code set utilizing the index and tables, in relation to anatomy and physiology to assign principal and secondary procedure codes in hospital inpatient settings. Upon completion, students should be able to accurately assign procedural codes according to the official ICD-PCS coding guidelines and evaluate compliance with regulatory requirements and reimbursement methodologies.

## HIT-214: Outpatient Procedure Coding/Reporting

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[HIT-211: Diagnosis Coding and Reporting](#)

**Session Cycle**

Spring Only

**Description**

This course covers application of coding and reporting standards as they apply to Current Procedural Terminology (CPT) guidelines and principles. Emphasis is placed on application of the coding guidelines, in relation to anatomy and physiology, for ambulatory healthcare settings. Upon completion, students should be able to assign CPT/HCPCS procedural codes according to official guidelines and evaluate compliance with regulatory requirements and reimbursement methodologies.

## HIT-215: Revenue Cycle Management

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the revenue cycle management process used in all healthcare settings as they relate to national billing, compliance, and reporting requirements. Topics include clinical documentation improvement, prospective payment systems, billing processes and procedures, chargemaster maintenance, regulatory guidelines, fraud and abuse, reimbursement monitoring, compliance strategies and reporting. Upon completion, students should be able to perform data quality reviews to validate code assignment and comply with reimbursement and reporting requirements.

## HIT-217: Quality & Data Analysis

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[MAT-152: Statistical Methods I](#)

**Session Cycle**

Summer Only

**Description**

This course covers the principles of quality assessment and improvement, including data analysis and decision making in healthcare. Topics include healthcare statistics, continuous quality improvement, data analysis and reporting techniques, quality and outcome metric monitoring. Upon completion, students should be able to compute healthcare statistics, abstract, analyze and report clinical data for organization-wide quality and performance improvement programs for compliance purposes.

# Courses

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## HIT-218: Management Principles in HIT

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers organizational management concepts as applied to healthcare settings. Topics include leadership skills, managing organizational change, best practices, decision-making, financial management, cultural diversity, ethics, consumer engagement, and workforce training. Upon completion, students should be able to apply management, leadership, and supervisory concepts to various healthcare settings.

## HIT-220: Electronic Health Records

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers EHR systems, design, implementation and application. Topics include EHR, informatics, information governance, health information exchange (HIE), speech & imaging technology, information/network security & integrity, data dictionaries, modeling and warehousing. Upon completion, students should be able to facilitate usage of electronic health record systems and other technologies.

## HIT-222: Prof Practice Exp III

**Credits** 2

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 6

**Session Cycle**

Fall Only

**Liability Insurance** \$16

**Description**

This course provides supervised and/or simulated health information technology clinical experience in healthcare settings. Emphasis is placed on practical application of HIM functions and core curriculum concepts. Upon completion, students should be able to apply health information theory to healthcare facility practices.

## HIT-225: Healthcare Informatics

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers data analysis to support decision making, patient care, and regulatory compliance. Topics include clinical terminology and vocabulary systems, data capture methodology, data presentation and reporting, and initiatives to improve the quality of patient care. Upon completion, students should be able to identify data elements and sets, analyze capture methodology in healthcare settings, analyze compliance issues and make improvement recommendations.

## HIT-226: Pathophysiology & Pharmacology

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[BIO-163](#), [BIO-166](#), or [BIO-169](#)

**Session Cycle**

Summer Only

**Description**

This course covers principles of disease and the associated pharmacological treatments. Emphasis is placed on physical signs and symptoms, prognoses, common complications and therapeutic options. Upon completion, students should be able to relate disease processes to physical signs and symptoms, prognosis, common complications and their management.

# Courses

## HIT-280: Health Information Management Capstone

Credits 2

Lab 0

Lecture 2

Clinical/WkExp 0

State Prerequisites

[HIT-211: Diagnosis Coding and Reporting](#)

Session Cycle

Summer & Fall

Description

This course integrates application of knowledge and skills learned in prior HIT courses and is designed to prepare students for professional roles in HIM and promote ethical standards of practice. Emphasis is placed on AHIMA domains and professional competencies, career services and preparation for the National Certification exam. Upon completion, students should be able to demonstrate competency in the entry-level domains and subdomains of health information management.

## Health Sciences

### HSC-110: Orientation to Health Careers

Credits 1

Lab 0

Lecture 1

Clinical/WkExp 0

Session Cycle

Spring Only

Description

This course is a survey of health care professions. Topics include professional duties and responsibilities, working environments, and career choices. Upon completion, students should be able to demonstrate an understanding of the health care professions and be prepared to make informed career choices.

## History

### HIS-111: World Civilizations I

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Corequisites

[ENG-025](#) or [ENG-045](#)

Session Cycle

Fall & Spring

Description

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

**This is a Universal General Education Transfer Component (UGETC) course.**

### HIS-112: World Civilizations II

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Corequisites

[ENG-025](#) or [ENG-045](#)

Session Cycle

Fall & Spring

Description

This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the Americas. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern world civilizations.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

**This is a Universal General Education Transfer Component (UGETC) course.**

# Courses

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## HIS-121: Western Civilization I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Fall & Spring

**Description**

This course introduces western civilization from pre-history to the early modern era. Topics include ancient Greece, Rome, and Christian institutions of the Middle Ages and the emergence of national monarchies in western Europe. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early western civilization.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

## HIS-122: Western Civilization II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Fall & Spring

**Description**

This course introduces western civilization from the early modern era to the present. Topics include the religious wars, the Industrial Revolution, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern western civilization.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

## HIS-131: American History I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Fall & Spring

**Description**

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

**This is a Universal General Education Transfer Component (UGETC) course.**

## HIS-132: American History II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

ALL

**Description**

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

**This is a Universal General Education Transfer Component (UGETC) course.**

# Courses

## Humanities

### HUM-110: Technology and Society

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG 045](#)

**Session Cycle**

Fall & Spring

**Description**

This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

### HUM-115: Critical Thinking

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

ALL

**Description**

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

### HUM-120: Cultural Studies

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the culture studied.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

### HUM-160: Introduction to Film

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Spring Only

**Description**

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values reflected in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

# Courses

## HUM-211: Humanities I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ENG-111: Writing and Inquiry](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from ancient through early modern times. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

## HUM-212: Humanities II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ENG-111: Writing and Inquiry](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from early modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

## HUM-230: Leadership Development

**Credits** 3

**Lab** 0

**Lecture** 3

**State Prerequisites**

[ENG-111: Writing and Inquiry](#)

**Description**

This course explores the theories and techniques of leadership and group process. Emphasis is placed on leadership styles, theories of group dynamics, and the moral and ethical responsibilities of leadership. Upon completion, students should be able to identify and analyze a personal philosophy and style of leadership and integrate these concepts in various practical situations.

## Hydraulics

### HYD-110: Hydraulics/Pneumatics I

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Fee** \$85

**Description**

This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting.

## Industrial Science

### ISC-112: Industrial Safety

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the principles of industrial safety. Emphasis is placed on industrial safety and OSHA regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance.

# Courses

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## ISC-132: Manufacturing Quality Control

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$35

**Description**

This course introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools. Upon completion, students should be able to demonstrate an understanding of the concepts and principles of quality and apply them to the work environment.

## Information Systems

### CIS-110: Introduction to Computers

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Fall Only

**Description**

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural science/mathematics (Quantitative Option).*

### CIS-113: Computer Basics

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces basic computer usage for non-computer majors. Emphasis is placed on developing basic personal computer skills. Upon completion, students should be able to demonstrate competence in basic computer applications.

### CIS-115: Introduction to Programming and Logic

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[MAT-025](#) or [MAT-035](#)

**Session Cycle**

ALL

**Description**

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to use top-down algorithm design and implement algorithmic solutions in a programming language.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in natural science/mathematics (Quantitative Option).*

## Information Systems Security

### SEC-110: Security Concepts

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy.

### SEC-151: Introduction to Protocol Analysis

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces protocol analysis. Topics include protocol analysis tools, TCP/IP concepts, Internet protocols, network traffic analysis, monitoring network traffic, network security protocol analysis, and understanding data flow through protocol analysis. Upon completion, students should be able to perform simple protocol analysis to determine baseline network performance and identify anomalies.

### SEC-160: Security Administration I

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course provides an overview of security administration and fundamentals of designing security architectures. Topics include networking technologies, TCP/IP concepts, protocols, network traffic analysis, monitoring, and security best practices. Upon completion, students should be able to identify normal network traffic using network analysis tools and design basic security defenses.

### SEC-175: Perimeter Defense

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the principles of securing networks using routers and firewalls. Topics include networking protocols, threat mitigation, firewall configuration, authentication, authorization, intrusion detection, encryption, IPSec, VPNs, and remote access technologies. Upon completion, students should be able to secure internal networks using router and firewall technologies.

### SEC-210: Intrusion Detection

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the student to intrusion detection methods in use today. Topics include the types of intrusion detection products, traffic analysis, and planning and placement of intrusion detection solutions. Upon completion, students should be able to plan and implement intrusion detection solution for networks and host-based systems.

# Courses

## Law Enforcement Training

### LET-110: Basic Law Enforcement BLET

**Credits** 37

**Lab** 27

**Lecture** 28

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$65

**Description**

This course covers the basic knowledge and skills needed for entry-level employment as a law enforcement officer in North Carolina as required by the Criminal Justice Education and Training Standards Commission and the Sheriffs' Education and Training Standards Commission. Topics include Commission-mandated content specific to law enforcement in North Carolina, criminal investigations, traffic enforcement/investigations, patrol techniques, crisis intervention, communication and de-escalation skills, interviews and interrogations, criminal and constitutional law, court procedures, civil process, ethical problem solving, and officer wellness. Upon completion, students should be able to demonstrate competence in the content required for the state comprehensive certification examination administered by the NC Department of Justice.

*This is a certificate level course.*

## Machining

### MAC-111: Machining Technology I

**Credits** 6

**Lab** 12

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$85

**Description**

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments. Upon completion, students should be able to safely perform the basic operations of measuring, layout, drilling, sawing, turning, and milling.

### MAC-112: Machining Technology II

**Credits** 6

**Lab** 12

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[MAC-111: Machining Technology I](#)

**Session Cycle**

Spring Only

**Fee** \$85

**Description**

This course provides additional instruction and practice in the use of precision measuring tools, lathes, milling machines, and grinders. Emphasis is placed on setup and operation of machine tools including the selection and use of work holding devices, speeds, feeds, cutting tools, and coolants. Upon completion, students should be able to perform basic procedures on precision grinders and advanced operations of measuring, layout, drilling, sawing, turning, and milling.

### MAC-114: Introduction to Metrology

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the care and use of precision measuring instruments. Emphasis is placed on the inspection of machine parts and use of a wide variety of measuring instruments. Upon completion, students should be able to demonstrate the correct use of measuring instruments.

### MAC-117: Metalforming Skills I

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$150

**Description**

This course is designed to prepare students to operate equipment used in metal forming production shops. Emphasis is placed on tooling skills, work planning, job control, handling of materials, operation of metal forming equipment, inspection, quality assurance, and safety. Upon completion, students should be able to operate metal forming workstations.

# Courses

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## MAC-121: Introduction to CNC

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications. Upon completion, students should be able to explain operator safety, machine protection, data input, program preparation, and program storage.

## MAC-122: CNC Turning

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$85

**Description**

This course introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC turning centers.

## MAC-124: CNC Milling

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$85

**Description**

This course introduces the manual programming, setup, and operation of CNC machining centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC machining centers.

## MAC-126: CNC Metal Fabrication

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$85

**Description**

This course introduces CNC operations used in precision metal fabrication. Topics include CNC control of shears, brakes, punch presses, and lasers and the programming techniques used to produce parts. Upon completion, students should be able to demonstrate knowledge of equipment operations, CNC control functions, and part programming.

## MAC-131: Blueprint Reading-Machining I

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the basic principles of blueprint reading and sketching. Topics include multi-view drawings; interpretation of conventional lines; and dimensions, notes, and thread notations. Upon completion, students should be able to interpret basic drawings, visualize parts, and make pictorial sketches.

## MAC-132: Blueprint Reading-Machining II

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[MAC-131: Blueprint Reading-Machining I](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces more complex industrial blueprints. Emphasis is placed on auxiliary views, section views, violations of true project, special views, applications of GD & T, and interpretation of complex parts. Upon completion, students should be able to read and interpret complex industrial blueprints.

# Courses

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## MAC-153: Compound Angles

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the application of basic types and uses of compound angles. Emphasis is placed on problem solving by tilting and rotating adjacent angles to resolve an unknown compound angle. Upon completion, students should be able to set up and develop compound angles on parts using problem-solving techniques.

## MAC-160: Coordinate Measuring Machines

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces methods in the setup and operation of coordinate measuring machines. Emphasis is placed on the programming of coordinate measuring machines and the measurement of complex parts. Upon completion, students should be able to demonstrate skills in programming, operation, and setup of coordinate measuring machines.

## MAC-222: Advanced CNC Turning

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[MAC-122: CNC Turning](#)

**Session Cycle**

Spring Only

**Fee** \$85

**Description**

This course covers advanced methods in setup and operation of CNC turning centers. Emphasis is placed on programming and production of complex parts. Upon completion, students should be able to demonstrate skills in programming, operations, and setup of CNC turning centers.

## MAC-224: Advanced CNC Milling

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[MAC-124: CNC Milling](#)

**Session Cycle**

Spring Only

**Fee** \$85

**Description**

This course covers advanced methods in setup and operation of CNC machining centers. Emphasis is placed on programming and production of complex parts. Upon completion, students should be able to demonstrate skills in programming, operations, and setup of CNC machining centers.

## MAC-226: CNC EDM Machining

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the programming, setup, and operation of CNC electrical discharge machines. Topics include programming formats, control functions, program editing, production of parts, and inspection. Upon completion, students should be able to manufacture simple parts using CNC electrical discharge machines.

## MAC-228: Advanced CNC Processes

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers advanced programming, setup, and operation of CNC turning centers and CNC milling centers. Topics include advanced programming formats, control functions, program editing, and part production and inspection. Upon completion, students should be able to manufacture complex parts using CNC turning and milling centers.

# Courses

## MAC-231: CAM: Computer Numerical Control Turning

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[MAC-121](#) or [MAC-122](#)

**Session Cycle**

Spring Only

**Description**

This course introduces Computer Numerical Control graphics programming and concepts for turning center applications. Emphasis is placed on the interaction of menus to develop a shape file in a graphics CAM system and to develop tool path geometry and part geometry. Upon completion, students should be able to develop a job plan using CAM software, including machine selection, tool selection, operational sequence, speed, feed, and cutting depth.

## MAC-232: CAM: Computer Numerical Control Milling

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[MAC-121](#) or [MAC-124](#)

**Session Cycle**

Fall Only

**Description**

This course introduces Computer Numerical Control graphics programming and concepts for machining center applications. Emphasis is placed on developing a shape file in a graphics CAM system and transferring coded information from CAM graphics to the CNC milling center. Upon completion, students should be able to develop a complete job plan using CAM software to create a multi-axis CNC program.

## MAC-233: Appl in CNC Machining

**Credits** 6

**Lab** 12

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$85

**Description**

This capstone course provides students the opportunity to apply skills learned throughout the curriculum. Emphasis is placed on production of parts and assemblies using modern CNC machine tools. Upon completion, students should be able to manufacture complex parts using a variety of CNC machine tools.

## MAC-234: Advanced Multi-Axis Machining

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$85

**Description**

This course includes multi-axis machining using machining centers with multi-axis capabilities. Emphasis is placed on generation of machining center input with a CAM system and setup of pallet changer and rotary system for multi-axis machining fixtures. Upon completion, students should be able to convert CAD to output for multi-axis machining centers, including tooling, setup, and debugging processes.

## MAC-241: Jigs & Fixtures I

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[MAC-112: Machining Technology II](#)

**Session Cycle**

Spring Only

**Fee** \$85

**Description**

This course introduces the application and use of jigs and fixtures. Emphasis is placed on design and manufacture of simple jigs and fixtures. Upon completion, students should be able to design and build simple jigs and fixtures.

# Courses

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## MAC-243: Die Making I

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$85

**Description**

This course introduces the principles and applications of die making. Topics include types, construction, and application of dies. Upon completion, students should be able to design and build simple dies.

## MAC-245: Mold Construction I

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$85

**Description**

This course introduces the principles of mold making. Topics include types, construction, and application of molds. Upon completion, students should be able to design and build simple molds.

## MAC-248: Production Procedures

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers product planning and control and scheduling and routing of operations. Topics include cost-effective production methods, dimensional and statistical quality control, and the tooling and machines required for production. Upon completion, students should be able to plan, set up, and produce cost-effective quality machined parts.

## Maintenance

### MNT-110: Introduction to Maintenance Procedures

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course covers basic maintenance fundamentals for power transmission equipment. Topics include equipment inspection, lubrication, alignment, and other scheduled maintenance procedures. Upon completion, students should be able to demonstrate knowledge of accepted maintenance procedures and practices according to current industry standards.

### MNT-111: Maintenance Practices

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

This course provides in-depth theory and practical applications relating to predictive and preventive maintenance programs. Emphasis is placed on equipment failure analysis, maintenance management software, and techniques such as vibration and infrared analysis. Upon completion, students should be able to demonstrate an understanding of modern analytical and documentation methods.

# Courses

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## **MNT-165: Mechanical Industrial Systems**

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

This course covers mechanical components used in industrial machine operations. Emphasis is placed on mechanical drives, belts, gears, couplings, electrical drives, and other related topics. Upon completion, students should be able to demonstrate an understanding of industrial machines and be able to maintain this equipment.

## **Marketing and Retailing**

### **MKT-120: Principles of Marketing**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products. Upon completion, students should be able to apply marketing principles in organizational decision making.

### **MKT-123: Fundamentals of Selling**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

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.

### **MKT-223: Customer Service**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course stresses the importance of customer relations in the business world. Emphasis is placed on learning how to respond to complex customer requirements and to efficiently handle stressful situations. Upon completion, students should be able to demonstrate the ability to handle customer relations.

### **MKT-232: Social Media Marketing**

**Credits** 4

**Lab** 2

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course is designed to build students' social media marketing skills by utilizing projects that give students hands on experience implementing social media marketing strategies. Topics include integrating different social media technologies into a marketing plan, creating social media marketing campaigns, and applying appropriate social media tools. Upon completion, students should be able to use social media technologies to create and improve marketing efforts for businesses.

## Mathematics

### **MAT-025: Concepts of Essential Math/Statistics**

**Credits** 3

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course provides an opportunity to customize foundational math content and statistical concepts specific to real-world applications. Topics include decimals, percentages, ratios, proportions, solving basic equations, geometrical concepts, dimensional analysis, financial applications and elements of statistics and probability. Upon completion, students should be able to successfully demonstrate the use of mathematics, technology and statistical concepts to solve practical problems while developing positive academic habits, learning strategies and growth mindset.

### **MAT-035: Concepts of Algebra**

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course covers algebraic concepts with an emphasis on application and analysis. Topics include rational/radical expressions and equations, solving equations and inequalities, concepts of functions, factoring, and exponents. Upon completion, students should be able to successfully demonstrate mastery of algebraic concepts through application and analysis while developing positive academic habits, learning strategies and growth mindset.

### **MAT-045: Math Skills Support**

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course provides opportunities for students to build a stronger foundation for success in their gateway math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the gateway math course. Upon completion, student should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's gateway math course.

*Craven CC offers this course in four different capacities: Algebra (A), Precalculus (P), Quantitative (Q), or Statistics (S).*

# Courses

## **MAT-110: Mathematical Measurement and Literacy**

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results.

### **Competencies**

1. Demonstrate estimation skills and justify results.
2. Use dimensional analysis to convert units of measurement.
3. Employ fractions, percentages and proportions to solve contextual problems.
4. Compute geometric measurements of perimeter, area, volume and angles.
5. Use technology to analyze and interpret elements of personal finance.
6. Compare and contrast measures of center and measures of dispersion.
7. Interpret tables, charts, and graphs and communicate results.

## **MAT-121: Algebra/Trigonometry I**

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[MAT-035](#) or [MAT-045](#) (can be taken previously or concurrently)

**Session Cycle**

Spring Only

### **Description**

This course provides an integrated approach to technology and the skills required to manipulate, display, and interpret mathematical functions and formulas used in problem solving. Topics include the properties of plane and solid geometry, area and volume, and basic proportion applications; simplification, evaluation, and solving of algebraic equations and inequalities and radical functions; complex numbers; right triangle trigonometry; and systems of equations. Upon completion, students will be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

### **Competencies**

1. Use geometric principles to solve industrial application problems involving perimeter, area, and volume.
2. Employ basic algebraic operations to simplify, evaluate, and solve proportions, radical and other algebraic functions, equations, and inequalities.
3. Perform basic algebraic operations involving complex numbers.
4. Solve applied problems using trigonometric principles involving right triangles.
5. Solve applied problems using systems of equations involving two and three variables.
6. Use technology to solve practical problems and communicate results.

# Courses

## MAT-143: Quantitative Literacy

Credits 3

Lab 2

Lecture 2

Clinical/WkExp 0

Local Prerequisites

[MAT-025](#) or [MAT-045](#) (can be taken previously or concurrently)

Session Cycle

ALL

Description

This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Mathematics. **This is a Universal General Education Transfer Component (UGETC) course for the Associate in Arts degree.** It satisfies other General Education hours for the Associate in Science degree.*

**Competencies**

1. Judge the reasonableness of results using estimation, logical processes, and a proper understanding of quantity
2. Utilize proportional reasoning to solve contextual problems and make conversions involving various units of measurement
3. Identify, interpret, and compare linear and exponential rates of growth to make predictions and informed decisions based on data and graphs
4. Differentiate between simple and compound interest and analyze the long-term effects of saving, investing, and borrowing
5. Describe, analyze, and interpret statistical information such as graphs, tables, and summarized data to draw appropriate conclusions when presented with actual statistical studies
6. Determine probabilities and expected values and use them to assess risk and make informed decisions
7. Analyze civic and/or societal issues and critique decisions using relevant mathematics

## MAT-152: Statistical Methods I

Credits 4

Lab 2

Lecture 3

Clinical/WkExp 0

Local Prerequisites

[MAT-025](#) or [MAT-045](#) (can be taken previously or concurrently)

Session Cycle

ALL

Description

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Mathematics. **This is a Universal General Education Transfer Component (UGETC) course for the Associate in Arts degree.** It satisfies other General Education hours for the Associate in Science degree.*

**Competencies**

1. Organize, display, calculate, and interpret descriptive statistics
2. Apply basic rules of probability
3. Identify and apply appropriate probability distributions
4. Perform regression analysis
5. Analyze sample data to draw inferences about a population parameter
6. Communicate results through a variety of media

# Courses

## MAT-171: Precalculus Algebra

Credits 4

Lab 2

Lecture 3

Clinical/WkExp 0

Local Prerequisites

[MAT-035](#) or [MAT-045](#) (can be taken previously or concurrently)

Session Cycle

ALL

Description

This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Mathematics. **This is a Universal General Education Transfer Component (UGETC) course.***

Competencies

1. Use analytical, graphical, and numerical representations to solve absolute value, radical, polynomial, rational, exponential, and logarithmic equations with both real and complex solutions
2. Use analytical, graphical, and numerical representations to solve absolute value, polynomial and rational inequalities with real solutions
3. Use analytical, graphical, and numerical representations to analyze absolute value, radical, polynomial, rational, exponential and logarithmic functions with both real and complex zeros
4. Use multiple methods to solve problems involving systems of equations and apply to decomposing partial fractions
5. Construct the composition and inverse of functions
6. Use polynomial, exponential and logarithmic functions to model various real world situations in order to analyze, draw conclusions, and make predictions

## MAT-172: Precalculus Trigonometry

Credits 4

Lab 2

Lecture 3

Clinical/WkExp 0

State Prerequisites

[MAT-171: Precalculus Algebra](#)

Local Prerequisites

[MAT-171](#) with a grade of "C" or higher

Session Cycle

ALL

Description

This course is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on the analysis of trigonometric functions in multiple representations, right and oblique triangles, vectors, polar coordinates, conic sections, and parametric equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to trigonometry-related problems with and without technology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Mathematics. **This is a Universal General Education Transfer Component (UGETC) course for the Associate in Science degree.** It satisfies other General Education hours for the Associate in Arts degree*

Competencies

1. Use the unit circle and right triangle definitions to evaluate and graph trigonometric functions and their inverses, to derive trigonometric identities, and to simplify trigonometric expressions
2. Use multiple methods to solve problems involving trigonometric equations, right triangles, and oblique triangles
3. Demonstrate knowledge of vector definitions and perform vector operations
4. Convert equations and graphs between rectangular and polar coordinate systems, and apply to complex numbers
5. Use multiple representations to define, construct and analyze conic sections
6. Create, graph, and analyze parametric equations

# Courses

## MAT-263: Brief Calculus

Credits 4

Lab 2

Lecture 3

Clinical/WkExp 0

State Prerequisites

Take One: [MAT-171](#) or MAT-175

Session Cycle

Spring Only

Description

This course is designed to introduce concepts of differentiation and integration and their applications to solving problems. Topics include graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences. Upon completion, students should be able to demonstrate an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Mathematics. This is a **Universal General Education Transfer Component (UGETC) course for the Associate in Science degree.** It satisfies other General Education hours for the Associate in Arts degree*

**Competencies**

1. Calculate limits and verify using graphical, numerical and analytical methods
2. Interpret the derivative as a rate of change
3. Analyze and interpret the derivative of algebraic, exponential, and logarithmic functions
4. Evaluate antiderivatives and definite integrals of algebraic, exponential, and logarithmic functions
5. Apply derivatives and integrals to business, economics, and biological and behavioral sciences contexts
6. Use appropriate technology and communicate results through a variety of media

## MAT-271: Calculus I

Credits 4

Lab 2

Lecture 3

Clinical/WkExp 0

State Prerequisites

Take One: [MAT-172](#) or MAT-175

Session Cycle

ALL

Description

This course is designed to develop the topics of differential and integral calculus. Emphasis is placed on limits, continuity, derivatives and integrals of algebraic and transcendental functions of one variable. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to derivative-related problems with and without technology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Mathematics. This is a **Universal General Education Transfer Component (UGETC) course for the Associate in Science degree.** It satisfies other General Education hours for the Associate in Arts degree*

**Competencies**

1. Apply the definition of limit to evaluate limits by multiple methods and use it to derive the definition and rules for differentiation and integration
2. Use derivatives to analyze and graph algebraic and transcendental functions
3. Select and apply appropriate models and differentiation techniques to solve problems involving algebraic and transcendental functions; these problems will include but are not limited to applications involving optimization and related rates
4. Apply the definition of indefinite integral to solve basic differential equations
5. Apply the definition of definite integral to evaluate basic integrals
6. Use the fundamental theorem of calculus to evaluate integrals involving algebraic and transcendental functions

# Courses

## MAT-272: Calculus II

Credits 4

Lab 2

Lecture 3

Clinical/WkExp 0

State Prerequisites

[MAT-271: Calculus I](#)

Local Prerequisites

[MAT-271](#) with a grade of "C" or higher

Session Cycle

Spring & Summer

Description

This course is designed to develop advanced topics of differential and integral calculus. Emphasis is placed on the applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to integral-related problems with and without technology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Mathematics. This is a Universal General Education Transfer Component (UGETC) course for the Associate in Science degree. It satisfies other General Education hours for the Associate in Arts degree*

Competencies

1. Select and apply appropriate models and integration techniques to solve problems involving algebraic and transcendental functions; these problems will include but are not limited to applications involving volume, arc length, surface area, centroids, force and work
2. Evaluate proper and improper integrals using various integration techniques
3. Analyze the convergence and divergence of infinite sequences and series and find the Taylor and McLaurin representations for transcendental functions
4. Use differentiation and integration to analyze the graphs of polar form equations and parametric form equations
5. Solve separable and first-order linear differential equations
6. Analyze and graph conic sections using calculus techniques

## MAT-273: Calculus III

Credits 4

Lab 2

Lecture 3

Clinical/WkExp 0

State Prerequisites

[MAT-272: Calculus II](#)

Local Prerequisites

[MAT-272](#) with a grade of "C" or higher

Session Cycle

Fall Only

Description

This course is designed to develop the topics of multivariate calculus. Emphasis is placed on multivariate functions, partial derivatives, multiple integration, solid analytical geometry, vector valued functions, and line and surface integrals. Upon completion, students should be able to select and use appropriate models and techniques for finding the solution to multivariate-related problems with and without technology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Mathematics.*

Competencies

1. Perform operations with vectors in two and three dimensional space and apply to analytic geometry
2. Differentiate and integrate vector-valued functions and apply calculus to motion problems in two and three dimensional space
3. Determine the limits, derivatives, gradients, and integrals of multivariate functions
4. Solve problems in multiple integration using rectangular, cylindrical, and spherical coordinate systems
5. Select and apply appropriate models and techniques to define and evaluate line and surface integrals; these techniques will include but are not limited to Green's, Divergence, and Stoke's theorems
6. Demonstrate proficiency in using CAS technology to analyze, solve and interpret the various applications

# Courses

## MAT-280: Linear Algebra

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

MAT-271: Calculus I

**Session Cycle**

Summer Only

**Description**

This course provides an introduction to linear algebra topics. Emphasis is placed on the development of abstract concepts and applications for vectors, systems of equations, matrices, determinants, vector spaces, multi-dimensional linear transformations, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to linear algebra-related problems with and without technology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

**Competencies**

1. Use analytical and graphical representations to apply vector operations in multiple-dimensions
2. Solve systems of linear equations using multiple manual and technology-based methods; these methods will include but are not limited to Gaussian and Gauss-Jordan
3. Use eigenvalues, eigenvectors and diagonalization to solve problems in appropriate situations
4. Use matrix operations and linear transformations to solve problems in appropriate situations
5. Demonstrate knowledge of orthogonal projections and orthogonal complements of subspaces, and apply to appropriate situations
6. Use the fundamental concept of a basis for a subspace to give a precise definition of dimensions and rank, and to solve problems in appropriate situations
7. Demonstrate proficiency in using CAS technology to analyze, solve and interpret the various applications

## MAT-285: Differential Equations

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

MAT-272: Calculus II

**Session Cycle**

Spring Only

**Description**

This course provides an introduction to topics involving ordinary differential equations. Emphasis is placed on the development of abstract concepts and applications for first-order and linear higher-order differential equations, systems of differential equations, numerical methods, series solutions, eigenvalues and eigenvectors, and Laplace transforms. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to differential equations-related problems with and without technology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

**Competencies**

1. Find general solutions to first-order, second-order, and higher-order homogeneous and non-homogeneous differential equations by manual and technology-based methods
2. Identify and apply initial and boundary values to find particular solutions to first-order, second-order, and higher order homogeneous and non-homogeneous differential equations by manual and technology-based methods, and analyze and interpret the results
3. Select and apply appropriate methods to solve differential equations; these methods will include, but are not limited to, undetermined coefficients, variation of parameters, eigenvalues and eigenvectors, Laplace and inverse Laplace transforms
4. Select and apply series techniques to solve differential equations; these techniques will include but are not limited to Taylor series
5. Select and apply numerical analysis techniques to solve differential equations; these techniques will include but are not limited to Euler, Improved Euler, and Runge-Kutta
6. Demonstrate proficiency in using CAS technology to analyze, solve and interpret the various applications

## Mechanical

### MEC-110: Introduction to CAD/CAM

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course introduces CAD/CAM. Emphasis is placed on transferring part geometry from CAD to CAM for the development of a CNC-ready program. Upon completion, students should be able to use CAD/CAM software to produce a CNC program.

### MEC-111: Machine Processes I

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$85

**Description**

This course introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment. Topics include use and care of tools, safety, measuring tools, and the basic setup and operation of common machine tools. Upon completion, students should be able to manufacture simple parts to specified tolerance.

### MEC-130: Mechanisms

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$35

**Description**

This course introduces the purpose and action of various mechanical devices. Topics include cams, cables, gear trains, differentials, screws, belts, pulleys, shafts, levers, lubricants, and other devices. Upon completion, students should be able to analyze, maintain, and troubleshoot the components of mechanical systems.

### MEC-142: Physical Metallurgy

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

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.

### MEC-145: Manufacturing Materials I

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$150

**Description**

This course introduces a variety of manufacturing materials and common processing techniques. Emphasis is placed on the processing, testing, and application of materials such as wood, metals, plastics, ceramics, and composites. Upon completion, students should be able to demonstrate an understanding of fundamental engineering applications for a variety of materials, including their process capabilities and limitations.

### MEC-180: Engineering Materials

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the physical and mechanical properties of materials. Topics include materials testing, pre- and post-manufacturing processes, and material selection of ferrous and non-ferrous metals, plastics, composites, and non-conventional materials. Upon completion, students should be able to utilize basic material property tests and select appropriate materials for applications.

# Courses

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## MEC-187: Composite Materials

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$225

**Description**

This course introduces composite engineering materials. Topics include selection and processing of composites. Upon completion, students should be able to select appropriate materials and demonstrate knowledge in processing and curing of composites..

## MEC-188: Processing Composites I

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$275

**Description**

This course covers the properties and forms of various resins used in manufacturing commercial bag and vacuum composites and the processes for commercial application. Emphasis is placed on materials used, including polyester and/or vinyl ester resins, and processes of hand lay-up, vacuum bag and vacuum assisted resin transfer molding. Upon completion, students should be able to produce composite materials suitable for mechanical testing.

*This course is a unique concentration requirement in the Composites concentration in the Manufacturing Technology program.*

## MEC-189: Processing Composites II

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$275

**Description**

This course covers the resins and fibers used in high performance aircraft type composites and processes for advanced composite application. Emphasis is placed on materials used such as epoxy and carbon and the processes of compression molding, vacuum assisted resin transfer molding, and resin transfer molding. Upon completion, students should be able to produce composites suitable for mechanical testing.

*This course is a unique concentration requirement in the Composites concentration in the Manufacturing Technology program.*

## MEC-212: Composites Materials

### Test

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$275

**Description**

This course introduces different composite tests and testing procedures. Topics include data analysis, report writing, test machines, and test procedures. Upon completion, students should be able to perform and report results using impact, shear, compressions, flexure, and tension tests.

*This course is a unique concentration requirement in the Composites concentration in the Manufacturing Technology program.*

# Courses

## MEC-215: Design of Composite Structures

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$275

**Description**

This course introduces the basics of fiber reinforced composites materials, anisotropic theory, stress analysis, and test methods for composites. Topics include anisotropic constitutive equations and associated elastic constants, micromechanics models, theory of failures, classical laminate theory, laminate design, and special laminates. Upon completion, students should be able to apply concepts to the design of simple composite structural components.

*This course is a unique concentration requirement in the Composites concentration in the Manufacturing Technology program.*

## Medical Assisting

### MED-110: Orientation to Medical Assisting

**Credits** 1

**Lab** 0

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting.

### MED-118: Medical Law and Ethics

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed consent, and bioethical issues. Emphasis is placed on legal terms, professional attitudes, and the principles and basic concepts of ethics and laws involved in providing medical services. Upon completion, students should be able to meet the legal and ethical responsibilities of a multi-skilled health professional.

### MED-121: Medical Terminology I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

### MED-122: Medical Terminology II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[MED-121: Medical Terminology I](#)

**Session Cycle**

ALL

**Description**

This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

# Courses

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## MED-130: Administrative Office Procedures I

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course introduces medical office administrative procedures. Topics include appointment processing, written and oral communications, medical records, patient orientation, and safety. Upon completion, students should be able to perform basic administrative skills within the medical environment.

## MED-131: Administrative Office Procedures II

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[MED-130: Administrative Office Procedures I](#)

**Session Cycle**

Fall Only

### **Description**

This course provides medical office procedures in both economic and management skills. Topics include physical plant maintenance, equipment and supplies, liability coverage, medical economics, and introductory insurance procedures. Upon completion, students should be able to manage the economics of the medical office and supervise personnel.

## MED-134: Medical Transcription

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[MED-121: Medical Terminology I](#)

**Session Cycle**

Fall Only

### **Description**

This course provides the basic knowledge, understanding, and skills required to complete medical reports and transcribe medical dictation. Emphasis is placed on correct punctuation, capitalization, and spelling. Upon completion, students should be able to demonstrate competence in medical transcription.

## MED-140: Examining Room Procedures I

**Credits** 5

**Lab** 4

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

### **Description**

This course provides instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting with exams and treatment, patient education, preparation and administration of medications, EKG, vital signs, and medical emergencies. Upon completion, students should be able to demonstrate competence in exam room procedures.

## MED-150: Laboratory Procedures I

**Credits** 5

**Lab** 4

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Liability Insurance** \$16

### **Description**

This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective tests, phlebotomy, screening and follow-up of test results, and OSHA/CLIA regulations. Upon completion, students should be able to perform basic lab tests/skills based on course topics.

## MED-232: Medical Insurance Coding

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

### **Description**

This course is designed to develop coding skills. Emphasis is placed on advanced diagnostic and procedural coding in the outpatient facility. Upon completion, students should be able to demonstrate proficiency in coding for reimbursement.

# Courses

## MED-260: MED Clinical Practicum

**Credits** 5

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 15

**Local Corequisites**

[MED-262: Clinical Perspectives](#)

**Session Cycle**

Fall & Spring

**Description**

This course provides the opportunity to apply clinical, laboratory, and administrative skills in a medical facility. Emphasis is placed on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional.

## MED-262: Clinical Perspectives

**Credits** 1

**Lab** 0

**Lecture** 1

**Clinical/WkExp** 0

**Local Corequisites**

[MED-260: MED Clinical Practicum](#)

**Session Cycle**

Summer Only

**Description**

This course is designed to explore personal and occupational responsibilities of the practicing medical assistant. Emphasis is placed on problems encountered during externships and development of problem-solving skills. Upon completion, students should be able to demonstrate courteous and diplomatic behavior when solving problems in the medical facility.

## MED-270: Symptomatology

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Summer Only

**Description**

This course covers the study of disease symptoms and the appropriate actions taken by medical assistants in a medical facility in relation to these symptoms. Emphasis is placed on interviewing skills and appropriate triage, preparing patients for procedures, and screening test results. Upon completion, students should be able to recognize how certain symptoms relate to specific diseases, recognize emergency situations, and take appropriate actions.

## MED-272: Drug Therapy

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[MAT-110](#), [MAT-121](#), [MAT-122](#), [MAT-143](#), [MAT-152](#), or [MAT-171](#)

**Session Cycle**

Fall & Spring

**Description**

This course focuses on major drug groups, including their side effects, interactions, methods of administration, and proper documentation. Emphasis is placed on the theory of drug administration. Upon completion, students should be able to identify, spell, recognize side effects of, and document the most commonly used medications in a physician's office.

## MED-274: Diet Therapy/Nutrition

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course introduces the basic principles of nutrition as they relate to health and disease. Topics include basic nutrients, physiology, dietary deficiencies, weight management, and therapeutic nutrition in wellness and disease. Upon completion, students should be able to interpret clinical and dietary data and provide patient counseling and education.

## MED-276: Patient Education

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course is designed to provide communication skills, basic education principles, and knowledge of available community resources and to apply this knowledge to the clinical setting. Emphasis is placed on identifying appropriate community resources, developing patient education materials, and perfecting written and oral communication skills. Upon completion, students should be able to instruct, communicate effectively, and act as a liaison between the patient and community agencies.

# Courses

## Music

### MUS-110: Music Appreciation

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Corequisites

[ENG-025](#) or [ENG-045](#)

Session Cycle

ALL

**Description**

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts. This is a Universal General Education Transfer Component (UGETC) course.*

### MUS-111: Fundamentals of Music

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Corequisites

[ENG-025](#) or [ENG-045](#)

Session Cycle

Contact Program Advisor

**Description**

This course is an introductory course for students with little or no music background. Emphasis is placed on music notation, rhythmic patterns, scales, key signatures, intervals, and chords. Upon completion, students should be able to demonstrate an understanding of the rudiments of music.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

### MUS-112: Introduction to Jazz

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Corequisites

[ENG-025](#) or [ENG-045](#)

Session Cycle

Fall & Spring

**Description**

This course introduces the origins and musical components of jazz and the contributions of its major artists. Emphasis is placed on the development of discriminating listening habits, as well as the investigation of the styles and structural forms of the jazz idiom. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts. This is a Universal General Education Transfer Component (UGETC) course.*

### MUS-113: American Music

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Corequisites

[ENG-025](#) or [ENG-045](#)

Session Cycle

Contact Program Advisor

**Description**

This course introduces various musical styles, influences, and composers of the United States from pre-Colonial times to the present. Emphasis is placed on the broad variety of music particular to American culture. Upon completion, students should be able to demonstrate skills in basic listening and understanding of American music.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

# Courses

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## MUS-114: Introduction to World Music

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

[ENG-025](#) or [ENG-045](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a basic survey of World Music. Emphasis is placed on non-traditional instruments, sources, and performing practices. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of World Music.

## MUS-121: Music Theory I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Corequisites**

MUS-151P and [MUS-125](#)

**Session Cycle**

Fall Only

**Description**

This course provides an introduction to the musical elements of melody, rhythm, and harmony. Emphasis is placed upon the interaction of these elements through fundamental analysis and an introduction to part writing. Upon completion, students should be able to demonstrate understanding of melodic voice leading, rhythmic functions within simple and compound meters, and simple harmonic progressions.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-122: Music Theory II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-121: Music Theory I](#)

**Local Corequisites**

[MUS-126: Aural Skills II](#)

**Session Cycle**

Spring Only

**Description**

This course provides a comprehensive study of diatonic harmony. Emphasis is placed on voice leading tasks, part writing, and analysis using various labeling systems. Upon completion, students should be able to demonstrate harmonic principles through four-voice part writing, recognize and label non-harmonic tones, analyze chords using Roman numerals, figured bass, and lead sheet symbols, and classify small-scale phrase structure and cadence types.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-123: Music Composition

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-111](#) or [MUS-121](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a study of elementary forms and traditional approaches to the organization of melody, harmony, rhythm, etc. in musical composition. Emphasis is placed on using musical notation to create new musical works.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## MUS-125: Aural Skills I

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Local Corequisites**

[MUS-121: Music Theory I](#)

**Session Cycle**

Fall Only

**Description**

This course provides an introduction to the fundamentals in aural skills. Emphasis is placed on the study of basic melodies, harmonies, and rhythms through sight singing and ear training. Upon completion, students should be able to identify diatonic intervals, scales, and chords and perform and dictate simple melodies and rhythmic patterns.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-126: Aural Skills II

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Local Corequisites**

[MUS-122: Music Theory II](#)

**Session Cycle**

Spring Only

**Description**

This course provides a foundation in aural skills. Emphasis is placed on the development of sight singing and ear training skills in diatonic melody, diatonic harmonic progression, and rhythmic patterns. Upon completion, students should be able to fluently read music in treble and bass clefs; utilize any solmization system while sight singing simple diatonic melodies; identify elementary diatonic chord progressions; perform rhythms in simple and compound meters; and dictate diatonic melodic, diatonic harmonic, and advanced rhythmic patterns.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-131: Chorus I

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course provides an opportunity to gain experience singing in a chorus. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-132: Chorus II

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-131: Chorus I](#)

**Session Cycle**

Fall & Spring

**Description**

This course provides a continuation of studies begun in MUS 131. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## MUS-141: Ensemble I

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course provides an opportunity to perform in any combination of instrumental, vocal, or keyboard groups of two or more. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-142: Ensemble II

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-141: Ensemble I](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course is a continuation of MUS 141. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-151: Class Music I

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course provides group instruction in skills and techniques of the particular instrument or voice for those with little or no previous experience. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. Craven CC offers this course in three different capacities: piano (P), voice (V), or guitar (G).*

## MUS-152: Class Music II

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-151: Class Music I](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course is a continuation of MUS 151. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. Craven CC offers this course in three different capacities: piano (P), voice (V), or guitar (G).*

# Courses

## MUS-161: Applied Music I

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Fee** \$320

**Description**

This course provides individual instruction in the skills and techniques of the particular instrument or voice. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

Colleges may use a letter suffix to designate a specific instrument or voice, for example MUS 161P for piano. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

**NOTE:** This course is divided into two parts (MUS 161A and MUS 161B). MUS 161A is self-supporting (student pays a fee for one-on-one instruction in a specific instrument or voice); MUS 161B is two hours of supervised practice per week.

## MUS-162: Applied Music II

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-161: Applied Music I](#)

**Session Cycle**

Contact Program Advisor

**Fee** \$320

**Description**

This course is a continuation of MUS 161. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

**NOTE:** This course is divided into two parts (MUS 162A and MUS 162B). MUS 162A is self-supporting (student pays a fee for one-on-one instruction in a specific instrument or voice); MUS 162B is two hours of supervised practice per week.

## MUS-181: Show Choir I

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course provides students the initial training in basic competencies of dance/voice-based performances and to the nuances of preparation for such pop/jazz/theatre performances. Emphasis is placed on the introduction to, and subsequent development of, basic performance skills necessary for choreographed performance. Upon completion, students should be able to demonstrate the foundation competencies necessary to perform the assigned literature in various venues and under various professional conditions.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## MUS-182: Show Choir II

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-181: Show Choir I](#)

**Session Cycle**

Fall & Spring

**Description**

This course provides intermediate training in dance/voice-based performances and in the nuances of preparation for such pop/jazz/theatre performances. Emphasis is placed on continued development of skills necessary for professional group choral preparation and performance, as well as effective social interaction with a performance troupe. Upon completion, students should be able to demonstrate the intermediate competencies necessary to perform the assigned literature in various venues and under various professional conditions.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

# Courses

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## MUS-231: Chorus III

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-132: Chorus II](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course is a continuation of MUS 132. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## MUS-232: Chorus IV

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-231: Chorus III](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course is a continuation of MUS 231. Emphasis is placed on vocal techniques and the study of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

## MUS-251: Class Music III

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-152: Class Music II](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course is a continuation of MUS 152. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. Craven CC offers this course in three different capacities: piano (P), voice (V), or guitar (G).*

## MUS-252: Class Music IV

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-251: Class Music III](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course is a continuation of MUS 251. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. Craven CC offers this course in three different capacities: piano (P), voice (V), or guitar (G).*

# Courses

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## MUS-261: Applied Music III

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-162: Applied Music II](#)

**Session Cycle**

Contact Program Advisor

**Fee** \$320

**Description**

This course is a continuation of MUS 162. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-262: Applied Music IV

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-261: Applied Music III](#)

**Session Cycle**

Contact Program Advisor

**Fee** \$320

**Description**

This course is a continuation of MUS 261. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-281: Show Choir III

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-182: Show Choir II](#)

**Session Cycle**

Fall & Spring

**Description**

This course provides advanced training in dance/voice-based performance and in the nuances of preparation for such pop/jazz/theatre performances. Emphasis is placed on development of advanced skills necessary for professional group choral performance and the technical skills necessary for the execution of such performances. Upon completion, students should be able to demonstrate the advanced competencies necessary to perform the assigned literature in various venues and under various professional conditions.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## MUS-282: Show Choir IV

**Credits** 4

**Lab** 3

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[MUS-281: Show Choir III](#)

**Session Cycle**

Fall & Spring

**Description**

This course provides advanced training in dance/voice-based pop/jazz/theatre performances and is the capstone course in a four-semester series. Emphasis is placed on refinement of advanced skills necessary for professional group choral performance and the technical skills necessary for the execution of such performances. Upon completion, students should be able to demonstrate a mastery of the skills necessary to plan and perform the assigned literature in various venues and under various professional conditions.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## Networking Operating System

### NOS-110: Operating Systems Concepts

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

Fall Only

**Fee** \$10

**Description**

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is placed on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems.

### NOS-220: Linux/Unix Administration I

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[NOS-110: Operating Systems Concepts](#)

**Session Cycle**

Spring Only

**Description**

This course introduces the Linux file system, group administration, and system hardware controls. Topics include installation, creation and maintaining file systems, NIS client and DHCP client configuration, NFS, SMB/Samba, Configure X, Gnome, KDE, basic memory, processes, and security. Upon completion, students should be able to perform system administration tasks including installation, configuring and attaching a new Linux workstation to an existing network.

### NOS-230: Windows Administration I

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[NOS-110: Operating Systems Concepts](#)

**Session Cycle**

Fall Only

**Fee** \$10

**Description**

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.

## Networking Technology

### NET-125: Introduction to Networks

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$10

**Description**

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Topics include introduction to the principles of IP addressing and fundamentals of Ethernet concepts, media, and operations. Upon completion, students should be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

# Courses

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## NET-126: Switching and Routing

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[NET-125: Introduction to Networks](#)

**Session Cycle**

Fall Only

**Fee** \$10

**Description**

This course covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Emphasis is placed on configuring and troubleshooting routers and switches for advanced functionality using security best practices and resolving common network issues utilizing both IPv4 and IPv6 protocols. Upon completion, students should be able to configure VLANs and Inter-VLAN routing applying security best practices, troubleshoot inter-VLAN routing on Layer 3 devices, configure redundancy on a switched network using STP and EtherChannel, configure WLANs using a WLC and L2 security best practices and configure IPv4 and IPv6 static routing on routers.

## NET-225: Enterprise Networking

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[NET-126: Switching and Routing](#)

**Session Cycle**

Spring Only

**Fee** \$10

**Description**

This course is designed to cover the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasis is placed on configuring, troubleshooting, and securing enterprise network devices and understanding how application programming interfaces (API) and configuration management tools enable network automation. Upon completion, students should be able to configure link state routing protocols, implement ACLs to filter traffic and secure administrative access, configure NAT services on the router to provide address scalability, explain techniques to provide address scalability and secure remote access for WAN, and explain how automation affects evolving networks.

## NET-226: Network Programmability

**Credits** 3

**Lab** 4

**Lecture** 1

**Clinical/WkExp** 0

**Local Prerequisites**

[CIS-115](#) and [NET-125](#)

**Session Cycle**

Spring Only

**Fee** \$10

**Description**

This course covers the methodologies and tools of modern software development, applied to IT and Network operations. Emphasis is placed on network programming in current network scripting languages, using GIT and common data formats, deploying applications as containers, using Continuous Integration/Continuous Deployment (CI/CD) pipelines and automating infrastructure using code. Upon completion, students should be able to use basic Python programming and Linux skills, implement a development environment, use software development and design best practices, create a secure API, use current technologies to deploy and secure applications and compare software testing and deployment methods in automation and simulation environments.

# Courses

## Nursing

### NUR-101: Practical Nursing I

**Credits** 11

**Lab** 6

**Lecture** 7

**Clinical/WkExp** 6

**Local Prerequisites**

Admission to the Practical Nursing Program

**Local Corequisites**

[ACA-111](#) or [ACA-122](#), [BIO-163](#), and [PSY-150](#)

**Session Cycle**

Fall Only

**myClinicalExchange Access** \$25

**Supplemental Instruction** \$765.00

**Liability Insurance** \$16

**Description**

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including assessment, clinical decision making, professional behaviors, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching/learning, safety, ethical principles, legal issues, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

*This is a diploma-level course.*

### NUR-101AB: Practical Nursing I

**Credits** 7

**Lab** 6

**Lecture** 4

**Clinical/WkExp** 3

**Local Prerequisites**

Admission to the Practical Nursing Program

**Local Corequisites**

[BIO-163: Basic Anatomy & Physiology](#)

[ACA-111](#) or [ACA-122](#)

**Session Cycle**

Fall Only

**myClinicalExchange Access** \$25

**Supplemental Instruction** \$574.00

**Liability Insurance** \$16

**Description**

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including assessment, clinical decision making, professional behaviors, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching/learning, safety, ethical principles, legal issues, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

*This is a diploma-level course.*

# Courses

## NUR-101BB: Practical Nursing I

**Credits** 4

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 3

**Local Prerequisites**

Successful completion of NUR101AB

**Local Corequisites**

[ENG-111: Writing and Inquiry](#)

[PSY-150: General Psychology](#)

**Session Cycle**

Fall Only

**Supplemental Instruction** \$574.00

### Description

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including assessment, clinical decision making, professional behaviors, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching/learning, safety, ethical principles, legal issues, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

*This is a diploma-level course.*

## NUR-102: Practical Nursing II

**Credits** 10

**Lab** 0

**Lecture** 7

**Clinical/WkExp** 9

**State Prerequisites**

[NUR-101: Practical Nursing I](#)

**Local Prerequisites**

[ACA-111](#) or [ACA-122](#), [BIO-163](#), and [PSY-150](#)

**Local Corequisites**

[ENG-111](#) and [PSY-241](#)

**Session Cycle**

Spring Only

**Supplemental Instruction** \$765.00

### Description

This course is designed to further develop the concepts within the three domains of the individual, nursing, and healthcare. Emphasis is placed on the concepts within each domain including clinical decision making, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching and learning, accountability, safety, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

*This is a diploma-level course.*

## NUR-102AB: Practical Nursing II

**Credits** 5

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 5

**State Prerequisites**

[NUR-101: Practical Nursing I](#)

**Local Prerequisites**

[NUR-101BB: Practical Nursing I](#)

**Local Corequisites**

[ENG-111: Writing and Inquiry](#)

[PSY-150: General Psychology](#)

[NUR-101BB: Practical Nursing I](#)

**Session Cycle**

Spring Only

**Description**

This course is designed to further develop the concepts within the three domains of the individual, nursing, and healthcare. Emphasis is placed on the concepts within each domain including clinical decision making, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching and learning, accountability, safety, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

*This is a diploma-level course.*

## NUR-102BB: Practical Nursing II

**Credits** 5

**Lab** 0

**Lecture** 4

**Clinical/WkExp** 4

**State Prerequisites**

[NUR-101: Practical Nursing I](#)

**Local Prerequisites**

[NUR-102AB: Practical Nursing II](#)

**Local Corequisites**

[PSY-241](#)

**Session Cycle**

Summer Only

**Supplemental Instruction** ATI Fees: \$574.00

**Liability Insurance** \$16

**Description**

This course is designed to further develop the concepts within the three domains of the individual, nursing, and healthcare. Emphasis is placed on the concepts within each domain including clinical decision making, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching and learning, accountability, safety, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

*This is a diploma-level course.*

# Courses

## NUR-103: Practical Nursing III

**Credits** 9

**Lab** 0

**Lecture** 6

**Clinical/WkExp** 9

**State Prerequisites**

[NUR-101: Practical Nursing I](#)

**Local Prerequisites**

[ENG-111](#) and [PSY-241](#)

**Local Corequisites**

[NUR-102: Practical Nursing II](#)

**Session Cycle**

Summer Only

**Supplemental Instruction** Daytime Cohort - \$765.00; Evening Cohort - \$574.00

**Description**

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on biophysical and psychosocial concepts, professional behaviors, healthcare systems, health policy, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide safe, quality, and individualized entry level nursing care.

*This is a diploma-level course.*

## NUR-111: Introduction to Health Concepts

**Credits** 8

**Lab** 6

**Lecture** 4

**Clinical/WkExp** 6

**Local Corequisites**

[BIO-168: Anatomy and Physiology I](#)

[ENG-111: Writing and Inquiry](#)

[PSY-150: General Psychology](#)

[ACA-111](#) or [ACA-122](#)

**Session Cycle**

Fall & Spring

**myClinicalExchange Access** \$25

**Supplemental Instruction** \$685.00

**Liability Insurance** \$16

**Description**

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

## NUR-112: Health-Illness Concepts

**Credits** 5

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 6

**State Prerequisites**

[NUR-111: Introduction to Health Concepts](#)

**Local Prerequisites**

[BIO-168: Anatomy and Physiology I](#)

[ENG-111: Writing and Inquiry](#)

[PSY-150: General Psychology](#)

[ACA-111](#) or [ACA-122](#)

**Local Corequisites**

[BIO-169: Anatomy and Physiology II](#)

[NUR-114: Holistic Health Concepts](#)

[PSY-241: Developmental Psychology](#)

**Session Cycle**

Fall & Spring

**Supplemental Instruction** \$685.00

**Description**

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

# Courses

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## NUR-113: Family Health Concepts

**Credits** 5

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 6

**State Prerequisites**

NUR-111: Introduction to Health Concepts

**Local Prerequisites**

BIO-169: Anatomy and Physiology II

NUR-112: Health-Illness Concepts

NUR-114: Holistic Health Concepts

PSY-241: Developmental Psychology

**Local Corequisites**

NUR-211: Health Care Concepts

[ENG-112](#) or [ENG-114](#)

**Session Cycle**

Fall & Spring

**Supplemental Instruction** Fall 2025 ATI Fees: \$650.00 / Spring

2026 ATI Fees: \$685.00

**Description**

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

## NUR-114: Holistic Health Concepts

**Credits** 5

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 6

**State Prerequisites**

NUR-111: Introduction to Health Concepts

**Local Prerequisites**

BIO-168: Anatomy and Physiology I

ENG-111: Writing and Inquiry

PSY-150: General Psychology

[ACA-111](#) or [ACA-122](#)

**Local Corequisites**

BIO-169: Anatomy and Physiology II

NUR-112: Health-Illness Concepts

PSY-241: Developmental Psychology

**Session Cycle**

Fall & Spring

**Supplemental Instruction** ATI Fees: \$685.00

**Description**

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

# Courses

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## NUR-211: Health Care Concepts

**Credits** 5

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 6

**State Prerequisites**

NUR-111: Introduction to Health Concepts

**Local Prerequisites**

BIO-169: Anatomy and Physiology II

NUR-112: Health-Illness Concepts

NUR-114: Holistic Health Concepts

PSY-241: Developmental Psychology

**Local Corequisites**

NUR-213: Complex Health Concepts

[ENG-112](#) or [ENG-114](#)

**Session Cycle**

Fall & Spring

**Supplemental Instruction** Fall 2025 ATI Fee \$650.00/ Spring

2026 ATI Fee \$685.00

**Description**

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

## NUR-212: Health System Concepts

**Credits** 5

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 6

**State Prerequisites**

NUR-111: Introduction to Health Concepts

**Local Prerequisites**

BIO-169: Anatomy and Physiology II

NUR-112: Health-Illness Concepts

NUR-114: Holistic Health Concepts

PSY-241: Developmental Psychology

**Session Cycle**

Summer Only

**Supplemental Instruction** ATI Fees: \$685.00

**Liability Insurance** \$16

**Description**

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

# Courses

## NUR-213: Complex Health Concepts

**Credits** 10

**Lab** 3

**Lecture** 4

**Clinical/WkExp** 15

**State Prerequisites**

NUR-111: Introduction to Health Concepts

**State Corequisites**

NUR-112: Health-Illness Concepts

NUR-113: Family Health Concepts

NUR-114: Holistic Health Concepts

NUR-211: Health Care Concepts

NUR-212: Health System Concepts

**Local Corequisites**

[ART 111](#) or [ART 114](#) or [ART 115](#) or

[HUM 115](#) or

[MUS 110](#) or [MUS 112](#) or

[PHI 215](#) or [PHI 240](#)

**Session Cycle**

Fall & Spring

**Supplemental Instruction** \$650.00

**Description**

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care.

## NUR-214: Nsg Transition Concepts

**Credits** 4

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 3

**Local Prerequisites**

BIO-168: Anatomy and Physiology I

ENG-111: Writing and Inquiry

PSY-150: General Psychology

[ACA-111](#) or [ACA-122](#)

**Local Corequisites**

BIO-169: Anatomy and Physiology II

PSY-241: Developmental Psychology

**Session Cycle**

Fall & Spring

**myClinicalExchange Access** \$25

**Supplemental Instruction** \$685.00

**Liability Insurance** \$16

**Description**

This course is designed to introduce concepts within the three domains of the individual, healthcare, and nursing as the LPN transitions to the ADN role. Emphasis is placed on the concepts within each domain including evidenced-based practice, quality improvement, communication, safety, interdisciplinary team, clinical decision-making, informatics, assessment, caring, and health-wellness-illness. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

This course is a portion of the admission criteria for LPN to ADN Transition.

## Office Systems Technology

### OST-122: Office Computations

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course covers the keypad touch method using the electronic calculator (10-key) and mathematical functions used in office applications. Topics may include budgets, discounts, purchasing, inventory, and petty cash. Upon completion, students should be able to solve a wide variety of numerical problems commonly encountered in an office setting.

# Courses

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## OST-131: Keyboarding

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course covers basic keyboarding skills. Emphasis is placed on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at an acceptable speed and accuracy level using the touch system.

## OST-134: Text Entry & Formatting

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[OST-131: Keyboarding](#)

**Session Cycle**

Fall Only

**Description**

This course is designed to provide skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce documents and key timed writings at speeds commensurate with employability.

## OST-136: Word Processing

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CIS-110](#) or [CIS-111](#) or [CIS-113](#)

**Session Cycle**

Spring Only

**Description**

This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work effectively in a computerized word processing environment.

## OST-148: Medical Insurance and Billing

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course introduces fundamentals of medical insurance and billing. Emphasis is placed on the medical billing cycle to include third party payers, coding concepts, and form preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim.

## OST-149: Medical Legal Issues

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces the complex legal, moral, and ethical issues involved in providing health-care services. Emphasis is placed on the legal requirements of medical practices; the relationship of physician, patient, and office personnel; professional liabilities; and medical practice liability. Upon completion, students should be able to demonstrate a working knowledge of current medical law and accepted ethical behavior.

## OST-161: Medical Office Procedures

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring & Summer

**Description**

This course provides instruction on the skills and procedures needed in today's medical office. Topics include medical data entry, medical communications, phone etiquette, use and maintenance of office equipment, inventory control, patient scheduling, and managing the financial aspects of a practice. Upon completion, students should be able to display skills and decision-making abilities essential in the medical office.

# Courses

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## OST-164: Office Editing

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text.

## OST-165: Advanced Office Editing

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[OST-164: Office Editing](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course is designed to develop proficiency in advanced editing skills needed in the office environment. Emphasis is placed on the application of creating effective electronic office documents. Upon completion, students should be able to apply advanced editing skills to compose text.

## OST-184: Records Management

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course includes the creation, maintenance, protection, security, and disposition of records stored in a variety of media forms. Topics include alphabetic, geographic, subject, and numeric filing methods. Upon completion, students should be able to set up and maintain a records management system.

## OST-188: Issues in Office Administration

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course is designed to develop critical thinking skills concerning roles in business and how these contribute to society. Topics include an examination of social, racial, and gender issues and how they affect self-identity. Upon completion, students should be able to demonstrate an understanding of social issues in written and oral assignments.

## OST-241: Medical Office Transcription I

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[MED-121](#) or OST-141

**Session Cycle**

Spring Only

**Description**

This course introduces current transcription techniques as applied to medical documents. Emphasis is placed on accurate transcription, proofreading, editing and use of reference materials as well as vocabulary building. Upon completion, students should be able to prepare accurate and usable medical documents in the covered specialties.

## OST-243: Medical Office Simulation

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[OST-148: Medical Insurance and Billing](#)

**Session Cycle**

Fall Only

**Course Material Fee** \$101.7

**Description**

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.

# Courses

## OST-247: Procedure Coding

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[MED-121](#) or OST-141

**Session Cycle**

Fall Only

**Description**

This course provides in-depth coverage of procedural coding. Emphasis is placed on CPT and HCPCS coding systems. Upon completion, students should be able to properly code procedures and services performed in a medical facility.

## OST-248: Diagnostic Coding

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[MED-121](#) or OST-141

**Session Cycle**

Fall Only

**Description**

This course provides an in-depth study of diagnostic coding. Emphasis is placed on ICD coding system. Upon completion, students should be able to properly code diagnoses in a medical facility.

## OST-249: Medical Coding Certification Preparation

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[OST-247: Procedure Coding](#)

[OST-248: Diagnostic Coding](#)

**Session Cycle**

Spring Only

**Description**

This course provides instruction that will prepare students to sit for a national coding certification exam. Topics include diagnostic and procedural coding. Upon completion, students should be able to sit for various medical coding certification exams.

## OST-263: Healthcare Customer Relations

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[OST-148](#) or HMT-210

**Session Cycle**

Spring Only

**Description**

This course provides the soft skills necessary for effective communication and maintaining customer satisfaction in healthcare. Emphasis is placed on the importance of positive attitudes, techniques for handling difficult/angry customers, rephrasing blunt communication for better results, and the communication skills required to discuss topics such as insurance and billing issues with the patient and other medical personnel. Upon completion, students should be able to communicate information in a professional manner.

## OST-264: Medical Auditing

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[OST-247: Procedure Coding](#)

[OST-248: Diagnostic Coding](#)

**Session Cycle**

Spring Only

**Description**

This course provides instruction on how to apply regulations and policies to perform medical record audits for provider services. Emphasis is placed on understanding the scope of an audit, statistical sampling methodologies, performing a medical record audit, and compiling data for reports to improve the revenue cycle for healthcare services. Upon completion, students should be able to perform a medical audit.

# Courses

## OST-280: Electronic Health Records

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[CIS-110](#) or CIS-111 or OST-137

**Session Cycle**

Spring Only

**Course Material Fee** \$81.5

**Description**

This course focuses on the use of electronic health records in medical documentation and patient management. Emphasis is placed on creating and maintaining patient medical information, scheduling patient appointments, documenting patient encounters, and billing/insurance claim processing. Upon completion, students should be able to perform the required software tasks following a patient visit from start to finish.

## OST-281: Emerg Issues in Med Ofc

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Description**

This course provides a comprehensive discussion of topics familiar to the health care setting. Topics include emerging issues in the health care setting. Upon completion, students should be able to demonstrate an understanding of current medical office procedures and treatments.

## OST-286: Professional Development

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course covers the personal competencies and qualities needed to project a professional image in the office. Topics include interpersonal skills, health lifestyles, appearance, attitude, personal and professional growth, multicultural awareness, and professional etiquette. Upon completion, students should be able to demonstrate these attributes in the classroom, office, and society.

## Philosophy

### PHI-215: Philosophical Issues

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ENG-111: Writing and Inquiry](#)

**Session Cycle**

Fall & Spring

**Description**

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determinism and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and critically evaluate the philosophical components of an issue.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Humanities/Fine Arts.*

**This is a Universal General Education Transfer Component (UGETC) course.**

### PHI-240: Introduction to Ethics

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[ENG-111: Writing and Inquiry](#)

**Session Cycle**

ALL

**Description**

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on moral theories such as consequentialism, deontology, and virtue ethics. Upon completion, students should be able to apply various ethical theories to moral issues such as abortion, capital punishment, poverty, war, terrorism, the treatment of animals, and issues arising from new technologies.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Humanities/Fine Arts.*

**This is a Universal General Education Transfer Component (UGETC) course.**

# Courses

## Physical Education

### **PED-110: Fit and Well for Life**

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

### **PED-117: Weight Training I**

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Description**

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

### **PED-118: Weight Training II**

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[PED-117: Weight Training I](#)

**Session Cycle**

Fall & Spring

**Description**

This course covers advanced levels of weight training. Emphasis is placed on meeting individual training goals and addressing weight training needs and interests. Upon completion, students should be able to establish and implement an individualized advanced weight training program.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

### **PED-120: Walking for Fitness**

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

ALL

**Description**

This course introduces fitness through walking. Emphasis is placed on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

### **PED-122: Yoga I**

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces the basic discipline of yoga. Topics include proper breathing, relaxation techniques, and correct body positions. Upon completion, students should be able to demonstrate the procedures of yoga.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## **PED-123: Yoga II**

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

[PED-122: Yoga I](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course introduces more detailed aspects of the discipline of yoga. Topics include breathing and physical postures, relaxation, and mental concentration. Upon completion, students should be able to demonstrate advanced procedures of yoga.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## **PED-125: Self-Defense: Beginning**

**Credits** 1

**Lab** 1

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course is designed to aid students in developing rudimentary skills in self-defense. Emphasis is placed on stances, blocks, punches, and kicks as well as non-physical means of self-defense. Upon completion, students should be able to demonstrate basic self-defense techniques of a physical and non-physical nature.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## **PED-187: Social Dance-Beginning**

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Description**

This course introduces the fundamentals of popular social dances. Emphasis is placed on basic social dance techniques, dances, and a brief history of social dance. Upon completion, students should be able to demonstrate specific dance skills and perform some dances.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## **PED-216: Indoor Cycling**

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course is designed to promote physical fitness through indoor stationary cycling. Emphasis is placed on pedaling techniques, safety procedures, and conditioning exercises necessary for cycling. Upon completion, students should have improved cardiovascular and muscular endurance and be able to design and participate in a cycling for fitness program.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## **PED-217: Pilates I**

**Credits** 1

**Lab** 1

**Lecture** 0

**Clinical/WkExp** 0

**Description**

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.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## **PED-235: Tai Chi**

**Credits** 1

**Lab** 3

**Lecture** 0

**Clinical/WkExp** 0

**Description**

This course introduces martial arts using the Tai Chi form. Topics include proper conditioning exercises, proper terminology, historical foundations, etiquette, and drills. Upon completion, students should be able to perform skills and techniques related to this form of martial arts.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

# Courses

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## **PED 157: Pickleball**

**Credits** 1

**Lab** 2

**Description**

This course covers the fundamentals of pickleball. Emphasis is placed on the basics of serving, ground strokes (drives, drops, dinks, punches, and lobs), overhead strokes (smashes and slams), and the rules and strategies of singles and doubles play. Upon completion, students should be able to apply these skills in pickleball playing situations.

## **PED 219: Disc Golf**

**Credits** 1

**Lab** 2

**Description**

This course introduces the fundamentals of disc golf. Emphasis is placed on basic throwing techniques, putting, distance driving, scoring, and single and doubles play. Upon completion, students should be able to perform the skills required in playing situations.

## **Physical Therapy**

### **PTA-110: Intro to Physical Therapy**

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$15

**Description**

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.

### **PTA-120: Functional Anatomy**

**Credits** 3

**Lab** 6

**Lecture** 1

**Clinical/WkExp** 0

**State Corequisites**

[PTA-140: Therapeutic Exercise](#)

**Session Cycle**

Spring Only

**Description**

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.

### **PTA-130: Physical Therapy Procedures I**

**Credits** 3

**Lab** 6

**Lecture** 1

**Clinical/WkExp** 0

**State Corequisites**

[PTA-110: Intro to Physical Therapy](#)

**Session Cycle**

Fall Only

**Description**

This course includes concepts of injury and repair and documentation methods. Emphasis is placed on physiological effects, indications, contraindications, and skilled applications of selected therapeutic modalities. Upon completion, students should be able to safely, correctly, and effectively apply the emphasized techniques and procedures with understanding of correct documentation.

# Courses

## PTA-140: Therapeutic Exercise

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**State Corequisites**

[PTA-120: Functional Anatomy](#)

**Session Cycle**

Spring Only

**Description**

This course covers muscle physiology, exercise concepts, testing, and applications to the spine and extremities. Topics include strength, endurance, flexibility, and exercise protocols and progressions. Upon completion, students should be able to demonstrate skill in applying therapeutic exercise principles for non-neurological conditions in a safe and appropriate manner.

## PTA-150: Physical Therapy Procedures II

**Credits** 3

**Lab** 6

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[PTA-130: Physical Therapy Procedures I](#)

**Session Cycle**

Spring Only

**Fee** \$60

**Description**

This course is designed to include the theory and practice of additional therapeutic interventions. Topics include but are not limited to electrotherapy, burn and wound care, biofeedback, and selected data collection methods. Upon completion, students should be able to apply these modalities and treatment techniques effectively and safely and demonstrate knowledge of physiological principles involved.

## PTA-160: Physical Therapy Procedures III

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

[PTA-150: Physical Therapy Procedures II](#)

**Session Cycle**

Fall Only

**Description**

This course introduces treatment and measurement techniques and discusses treatment programs for selected neuromusculoskeletal dysfunction and injuries. Topics include soft tissue and joint dysfunction, selected assessment techniques, and various exercise programs. Upon completion, students should be able to demonstrate the application of selected data collection methods and functional interventions.

## PTA-170: Pathophysiology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Summer Only

**Description**

This course is a survey of basic pathology with emphasis on conditions most frequently observed and treated in physical therapy. Topics include etiology, pathology, manifestation, treatment, and prognosis. Upon completion, students should be able to explain repair processes, categorize diseases, define pathology, identify organ/body systems involved, and discuss treatment and prognosis.

## PTA-180: PTA Clinical Ed Intro

**Credits** 3

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 9

**Session Cycle**

Fall Only

**Liability Insurance** \$16

**Description**

This course introduces the physical therapy clinic in planned learning experiences and practice under supervision. Emphasis is placed on reinforcement of learned skills in direct patient care and communication. Upon completion, students should be able to demonstrate satisfactory performance in learned patient care skills, communication activities, and professional behaviors.

# Courses

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## **PTA-212: Health Care/Resources**

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

### **Description**

This course provides an overview of various aspects of health care delivery systems and the interrelationships of health care team members. Topics include health agencies and their functions, health care team member roles, management, and other health care issues. Upon completion, students should be able to discuss the functions of health organizations and team members and aspects of health care affecting physical therapy delivery.

## **PTA-222: Professional Interactions**

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Summer Only

### **Description**

This course is designed to assist in the development of effective interpersonal skills in the physical therapist assistant setting. Topics include reactions to disability, the grieving process, methods of communication, motivation, health promotion, disease prevention, and aging. Upon completion, students should be able to discuss and demonstrate methods for achieving effective interaction with patients, families, the public, and other health care providers.

## **PTA-240: Physical Therapy Procedures IV**

**Credits** 5

**Lab** 6

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

### **Description**

This course covers normal development, adult and pediatric/CNS dysfunction, spinal cord injuries, amputee rehabilitation techniques, and cardiopulmonary rehabilitation. Topics include neurology review, selected rehabilitation techniques, ADL and functional training, prosthetic and orthotic training, and environmental access. Upon completion, students should be able to demonstrate safe and correct application of selected rehabilitation techniques for neurological dysfunction, cardiopulmonary conditions, and amputations.

## **PTA-260: Adv. Pta Clinical Ed.**

**Credits** 10

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 30

**Session Cycle**

Spring Only

### **Description**

This course provides full-time clinical affiliations for planned learning experiences and practice under supervision. Emphasis is placed on reinforcement of learned skills in direct patient care, communications, and professional behaviors. Upon completion, students should be able to demonstrate satisfactory performance as an entry-level physical therapist assistant and as a member of the physical therapy team.

# Courses

## PTA-270: PTA Topics

**Credits** 1

**Lab** 0

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$90

**Description**

This course covers the physical therapist assistant profession in preparation for the state licensure exam. Topics include developing time management skills and practicing for the competence examinations. Upon completion, students should be able to identify individual academic strengths and weaknesses and utilize this information to continue self-study for the licensure exam.

## Physics

### PHY-110: Conceptual Physics

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Corequisites**

[PHY-110A: Conceptual Physics Lab](#)

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

and [MAT-025](#) or [MAT-035](#) or [MAT-045](#) (can be taken previously or concurrently)

**Session Cycle**

Fall & Spring

**Description**

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Natural Science. This course is a Universal General Education Transfer Component (UGETC) course for the AA and AFA degrees. It satisfies other General Education hours for the AS degree.*

### PHY-110A: Conceptual Physics Lab

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Corequisites**

[PHY-110: Conceptual Physics](#)

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

and [MAT-025](#) or [MAT-035](#) or [MAT-045](#) (can be taken previously or concurrently)

**Session Cycle**

Fall & Spring

**Fee** \$30

**Description**

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Natural Science. This course is a Universal General Education Transfer Component (UGETC) course for the AA and AFA degrees. It satisfies other General Education hours for the AS degree.*

### PHY-131: Physics-Mechanics

**Credits** 4

**Lab** 2

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[MAT-121](#) or [MAT-171](#)

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

Contact Program Advisor

**Fee** \$30

**Description**

This algebra/trigonometry-based course introduces fundamental physical concepts as applied to engineering technology fields. Topics include systems of units, problem-solving methods, graphical analysis, vectors, motion, forces, Newton's laws of motion, work, energy, power, momentum, and properties of matter. Upon completion, students should be able to apply the principles studied to applications in engineering technology fields.

# Courses

## PHY-151: College Physics I

Credits 4

Lab 2

Lecture 3

Clinical/WkExp 0

State Prerequisites

[MAT-171](#) or [MAT-271](#)

Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

Session Cycle

Spring Only

Fee \$30

Description

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vectors, linear kinematics and dynamics, energy, power, momentum, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.*

## PHY-152: College Physics II

Credits 4

Lab 2

Lecture 3

Clinical/WkExp 0

State Prerequisites

[PHY-151: College Physics I](#)

Session Cycle

Contact Program Advisor

Fee \$30

Description

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.*

## PHY-251: General Physics I

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[MAT-271: Calculus I](#)

Session Cycle

Spring & Summer

Fee \$30

Description

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vector operations, linear kinematics and dynamics, energy, power, momentum, rotational mechanics, periodic motion, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.*

## PHY-252: General Physics II

Credits 4

Lab 3

Lecture 3

Clinical/WkExp 0

State Prerequisites

[MAT-272](#) and [PHY-251](#)

Session Cycle

Fall Only

Fee \$30

Description

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.*

# Courses

## Plastics

### PLA-110: Introduction to Plastics

**Credits** 2

**Lab** 0

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces the plastics processing industry, including thermoplastics and thermosets. Emphasis is placed on the description, classification, and properties of common plastics and processes and current trends in the industry. Upon completion, students should be able to describe the differences between thermoplastics and thermosets and recognize the basics of the different plastic processes.

## Political Science

### POL-120: American Government

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

ALL

**Description**

This course is a study of the origins, development, structure, and functions of American government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy process. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

**This is a Universal General Education Transfer Component (UGETC) course.**

## Psychology

### PSY-150: General Psychology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

ALL

**Description**

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This is a Universal General Education Transfer Component (UGETC) course.*

### PSY-237: Social Psychology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[PSY-150](#) or [SOC-210](#)

**Session Cycle**

Fall Only

**Description**

This course introduces the study of individual behavior within social contexts. Topics include affiliation, attitude formation and change, conformity, altruism, aggression, attribution, interpersonal attraction, and group behavior. Upon completion, students should be able to demonstrate an understanding of the basic principles of social influences on behavior.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

# Courses

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## PSY-239: Psychology of Personality

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[PSY-150: General Psychology](#)

**Session Cycle**

Spring Only

**Description**

This course covers major personality theories and personality research methods. Topics include psychoanalytic, behavioristic, social learning, cognitive, humanistic, and trait theories including supporting research. Upon completion, students should be able to compare and contrast traditional and contemporary approaches to the understanding of individual differences in human behavior.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

## PSY-241: Developmental Psychology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[PSY-150: General Psychology](#)

**Session Cycle**

ALL

**Description**

This course is a study of human growth and development. Emphasis is placed on major theories and perspectives as they relate to the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

## PSY-281: Abnormal Psychology

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[PSY-150: General Psychology](#)

**Session Cycle**

ALL

**Description**

This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavior patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

## Religion

### REL-110: World Religions

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

ALL

**Description**

This course introduces the world's major religious traditions. Topics include Primal religions, Hinduism, Buddhism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

# Courses

## REL-211: Introduction to Old Testament

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

Session Cycle

Contact Program Advisor

Description

This course is a survey of the literature of the Hebrews with readings from the law, prophets, and other writings. Emphasis is placed on the use of literary, historical, archeological, and cultural analysis. Upon completion, students should be able to use the tools of critical analysis to read and understand Old Testament literature.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

## REL-212: Introduction to New Testament

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

Session Cycle

Contact Program Advisor

Description

This course is a survey of the literature of first-century Christianity with readings from the gospels, Acts, and the Pauline and pastoral letters. Topics include the literary structure, audience, and religious perspective of the writings, as well as the historical and cultural context of the early Christian community. Upon completion, students should be able to use the tools of critical analysis to read and understand New Testament literature.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

## Sociology

### SOC-210: Introduction to Sociology

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

Session Cycle

ALL

Description

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

**This is a Universal General Education Transfer Component (UGETC) course.**

### SOC-213: Sociology of the Family

Credits 3

Lab 0

Lecture 3

Clinical/WkExp 0

Local Prerequisites

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

Session Cycle

ALL

Description

This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

# Courses

## SOC-220: Social Problems

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

Fall & Spring

**Description**

This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

## SOC-225: Social Diversity

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Session Cycle**

Fall & Spring

**Description**

This course provides a comparison of diverse roles, interests, opportunities, contributions, and experiences in social life. Topics include race, ethnicity, gender, sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences evolve and how they affect personality development, values, and tolerance.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in social/behavioral sciences.*

## Spanish

### SPA-111: Elementary Spanish I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Local Prerequisites**

[ENG-025](#) or [ENG-045](#) (can be taken previously or concurrently)

**Local Corequisites**

[SPA-181: Spanish Lab 1](#)

**Session Cycle**

Fall & Spring

**Description**

This course introduces the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

### SPA-112: Elementary Spanish II

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

[SPA-111: Elementary Spanish I](#)

**Local Corequisites**

[SPA-182: Spanish Lab 2](#)

**Session Cycle**

Fall & Spring

**Description**

This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

# Courses

## SPA-181: Spanish Lab 1

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**Local Corequisites**

SPA-111: Elementary Spanish I

**Session Cycle**

Fall & Spring

**Description**

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## SPA-182: Spanish Lab 2

**Credits** 1

**Lab** 2

**Lecture** 0

**Clinical/WkExp** 0

**State Prerequisites**

SPA-111: Elementary Spanish I

**Local Corequisites**

SPA-112: Elementary Spanish II

**Session Cycle**

Fall & Spring

**Description**

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate cultural awareness.

*This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

## SPA-211: Intermediate Spanish I

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**State Prerequisites**

SPA-112: Elementary Spanish II

**Session Cycle**

Spring & Summer

**Description**

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future.

*This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

## Surveying

### SRV-110: Surveying I

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Description**

This course introduces the theory and practice of plane surveying. Topics include the precise measurement of distances, angles, and elevations; bearing, azimuth and traverse computations; topography and mapping. Upon completion, students should be able to use/care for surveying equipment, collect field survey data, perform traverse computations and create a contour map.

## Sustainability Technologies

### SST-110: Introduction to Sustainability

**Credits** 3

**Lab** 0

**Lecture** 3

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$35

**Description**

This course introduces sustainability issues and individual contributions toward environmental sustainability. Topics include management processes needed to maximize renewable/non-renewable energy resources, economics of sustainability, and reduction of environmental impacts. Upon completion, students should be able to discuss sustainability practices and demonstrate an understanding of their effectiveness and impacts.

## Transportation Technology

### TRN-110: Introduction to Transport Technology

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$45

**Description**

This course covers workplace safety, hazardous materials, environmental regulations, hand tools, service information, basic concepts, vehicle systems, and common transportation industry terminology. Topics include familiarization with major vehicle systems, proper use of various hand and power tools, material safety data sheets, and personal protective equipment. Upon completion, students should be able to demonstrate appropriate safety procedures, identify and use basic shop tools, and describe government regulations regarding transportation repair facilities.

### TRN-120: Basic Transportation Electricity

**Credits** 5

**Lab** 3

**Lecture** 4

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$45

**Description**

This course covers basic electrical theory, wiring diagrams, test equipment, and diagnosis, repair and replacement of batteries, starters, and alternators. Topics include Ohm's Law, circuit construction, wiring diagrams, circuit testing, and basic troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair basic wiring, battery, starting, charging, and electrical concerns.

### TRN-140: Transportation Climate Control

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis and repair of climate control systems. Topics include diagnosis and repair of climate control components and systems, recovery/recycling of refrigerants, and safety and environmental regulations. Upon completion, students should be able to diagnose and repair vehicle climate control systems.

# Courses

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## TRN-140A: Transportation Climate Control Lab

**Credits** 2

**Lab** 2

**Lecture** 1

**Clinical/WkExp** 0

**State Corequisites**

[TRN-140: Transportation Climate Control](#)

**Session Cycle**

Spring Only

**Fee** \$45

**Description**

This course provides experiences for enhancing student skills in the diagnosis and repair of transportation climate control systems. Emphasis is placed on reclaiming, recovery, recharging, leak detection, climate control components, diagnosis, air conditioning equipment, tools and safety. Upon completion, students should be able to describe the operation, diagnose, and safely service climate control systems using appropriate tools, equipment, and service information.

## Unmanned Aircraft Systems

### UAS-110: Intro to UAS Operations

**Credits** 3

**Lab** 0

**Lecture** 3

**Description**

This course provides an introduction to the history, various technologies, and capabilities of unmanned aircraft systems (UAS). Topics include UAS history, operational design and capabilities, popular applications, and the science of flight. Upon completion, students should be able to identify and explain common aspects of unmanned aircraft systems including their historical development, commonly utilized technologies, applications, and unit flight capabilities.

### UAS-111: Unmanned Aircraft Systems

**Credits** 3

**Lab** 0

**Lecture** 3

**Description**

This course provides students with the various products and technologies commonly associated with unmanned aircraft systems utilized by hobbyists, government, industry, and the military. Topics include data acquisition, operations and the various technologies associated with unmanned flight. Upon completion, students should be able to demonstrate an understanding of flight control operations including programming telemetry and data acquisition.

### UAS-115: Small UAS Certification

**Credits** 2

**Lab** 0

**Lecture** 2

**Description**

This course prepares learners for small Unmanned Aircraft Systems (UAS) flight certification to promote compliance with the requirements of Title 14 of the Code of Federal Regulations (14 CFR). Topics include FAA Title 14 CFR Part 107 study guide and NCDOT UAS flight standards to provide guidance in the areas of remote pilot certification, aircraft registration and marking, aircraft airworthiness, basic piloting skills, and the operation of small UAS. Upon completion, students should be able to meet requirements for small UAS certification through the NCDOT and perform basic small UAS piloting in accordance with FAA Title 14 CFR Part 107 regulations.

# Courses

## Web Technologies

### WEB-210: Web Design

**Credits** 3

**Lab** 3

**Lecture** 2

**Clinical/WkExp** 0

**Local Prerequisites**

[CTI-110: Web, Programming, and Database Foundation](#)

**Session Cycle**

Fall Only

**Description**

This course introduces intermediate to advanced web design techniques. Topics include customer expectations, advanced markup language, multimedia technologies, usability and accessibility practices, and techniques for the evaluation of web design. Upon completion, students should be able to employ advanced design techniques to create high impact and highly functional web sites.

## Welding

### WLD-110: Cutting Processes

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$60

**Description**

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.

### WLD-112: Basic Welding Processes

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$60

**Description**

This course introduces basic welding and cutting. Emphasis is placed on beads applied with gases, mild steel fillers, and electrodes and the capillary action of solder. Upon completion, students should be able to set up welding and oxy-fuel equipment and perform welding, brazing, and soldering processes.

### WLD-115: SMAW (Stick) Plate

**Credits** 5

**Lab** 9

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$60

**Description**

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.

### WLD-116: SMAW (stick) Plate/Pipe

**Credits** 4

**Lab** 9

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[WLD-115: SMAW \(Stick\) Plate](#)

**Session Cycle**

Spring Only

**Fee** \$60

**Description**

This course is designed to enhance skills with the shielded metal arc (stick) welding process. Emphasis is placed on advancing manipulative skills with SMAW electrodes on varying joint geometry. Upon completion, students should be able to perform groove welds on carbon steel with prescribed electrodes in the flat, horizontal, vertical, and overhead positions.

# Courses

## WLD-121: GMAW (MIG) FCAW/Plate

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall & Spring

**Fee** \$60

**Description**

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

## WLD-122: GMAW (MIG) Plate/Pipe

**Credits** 3

**Lab** 6

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

WLD-121: GMAW (MIG) FCAW/Plate

**Session Cycle**

Spring Only

**Fee** \$60

**Description**

This course is designed to enhance skills with the gas metal arc (MIG) welding process. Emphasis is placed on advancing skills with the GMAW process making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry.

## WLD-131: GTAW (TIG) Plate

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$60

**Description**

This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.

## WLD-132: GTAW (TIG) Plate/Pipe

**Credits** 3

**Lab** 6

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

WLD-131: GTAW (TIG) Plate

**Session Cycle**

Fall Only

**Fee** \$60

**Description**

This course is designed to enhance skills with the gas tungsten arc (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry.

## WLD-141: Symbols and Specifications

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Spring Only

**Fee** \$60

**Description**

This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding.

## WLD-151: Fabrication I

**Credits** 4

**Lab** 6

**Lecture** 2

**Clinical/WkExp** 0

**Session Cycle**

Fall Only

**Fee** \$85

**Description**

This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, cutting, joining techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment.

# Courses

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## WLD-215: SMAW (stick) Pipe

**Credits** 4

**Lab** 9

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[WLD-115](#) or [WLD-116](#)

**Session Cycle**

Contact Program Advisor

**Description**

This course covers the knowledge and skills that apply to welding pipe. Topics include pipe positions, joint geometry, and preparation with emphasis placed on bead application, profile, and discontinuities. Upon completion, students should be able to perform SMAW welds to applicable codes on carbon steel pipe with prescribed electrodes in various positions.

## WLD-231: GTAW (TIG) Pipe

**Credits** 3

**Lab** 6

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[WLD-132: GTAW \(TIG\) Plate/Pipe](#)

**Session Cycle**

Spring Only

**Fee** \$60

**Description**

This course covers gas tungsten arc welding on pipe. Topics include joint preparation and fit up with emphasis placed on safety, GTAW welding technique, bead application, and joint geometry. Upon completion, students should be able to perform GTAW welds to applicable codes on pipe with prescribed electrodes and filler materials in various pipe positions.

## WLD-251: Fabrication II

**Credits** 3

**Lab** 6

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[WLD-151: Fabrication I](#)

**Session Cycle**

Spring Only

**Fee** \$85

**Description**

This course covers advanced fabrication skills. Topics include advanced layout and assembly methods with emphasis on the safe and correct use of fabrication tools and equipment. Upon completion, students should be able to fabricate projects from working drawings.

## WLD-261: Certification Practices

**Credits** 2

**Lab** 3

**Lecture** 1

**Clinical/WkExp** 0

**State Prerequisites**

[WLD-115: SMAW \(Stick\) Plate](#)

[WLD-121: GMAW \(MIG\) FCAW/Plate](#)

[WLD-131: GTAW \(TIG\) Plate](#)

**Session Cycle**

Fall Only

**Fee** \$60

**Description**

This course covers certification requirements for industrial welding processes. Topics include techniques and certification requirements for prequalified joint geometry. Upon completion, students should be able to perform welds on carbon steel plate and/or pipe according to applicable codes.

## WLD-265: Automated Welding/ Cutting

**Credits** 4

**Lab** 6

**Lecture** 2

**State Prerequisites**

[WLD-110: Cutting Processes](#)

[WLD-121: GMAW \(MIG\) FCAW/Plate](#)

**Description**

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.

## Work-Based Learning

### WBL-110: World of Work

**Credits** 1

**Lab** 0

**Lecture** 1

**Clinical/WkExp** 0

**Session Cycle**

Contact Program Advisor

**Description**

This course covers basic knowledge necessary for gaining and maintaining employment. Topics include job search skills, work ethic, meeting employer expectations, workplace safety, and human relations. Upon completion, students should be able to successfully make the transition from school to work.

# Courses

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## **WBL-111: Work-Based Learning I**

**Credits** 1

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 10

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

## **WBL-112: Work-Based Learning I**

**Credits** 2

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 20

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

## **WBL-113: Work-Based Learning I**

**Credits** 3

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 30

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

## **WBL-121: Work-Based Learning II**

**Credits** 1

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 10

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

## **WBL-122: Work-Based Learning II**

**Credits** 2

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 20

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

## **WBL-131: Work-Based Learning III**

**Credits** 1

**Lab** 0

**Lecture** 0

**Clinical/WkExp** 10

**Session Cycle**

Contact Program Advisor

**Description**

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

# Personnel

---

## Executive Leadership Team

### Dr. Raymond Staats

Executive Leadership Team  
Administrative and Professional Staff  
Craven Community College Foundation Board  
Members, Ex-officio members  
President  
BA – Syracuse University  
MS – Air Force Institute of Technology  
PhD – Virginia Tech

### Dr. Kathleen M. Gallman

Executive Leadership Team  
Administrative and Professional Staff  
VP for Instruction/Chief Academic Officer  
AAS – Hudson Valley Community College  
AAS – Craven Community College  
BSN – East Carolina University  
MSN – Duke University  
PhD – Northcentral University

### Mr. James “Jim” Millard

Executive Leadership Team  
Administrative and Professional Staff  
Craven Community College Foundation Board  
Members, Ex-officio members  
Vice President for Administration  
BS – Park University  
MS – East Carolina University

### Dr. Gery Boucher

Executive Leadership Team  
Administration and Deans  
Administrative and Professional Staff  
Vice President for Development  
BA, MAEd – East Carolina University  
EdD – Northcentral University

## Administration and Deans

### Dr. Jenifer Marquis

Administration and Deans  
Administrative and Professional Staff  
Dean of Teaching and Learning  
AA – Cypress College  
BA – University of Iowa  
MA – University of Phoenix  
MS – National University  
PhD – Old Dominion University

### Robin Matthews

Administration and Deans  
Administrative and Professional Staff  
Dean of Workforce Development  
BA – Francis Marion University  
MBA – TUI University

### Ricky Meadows

Administration and Deans  
Administrative and Professional Staff  
Dean of the Havelock Campus  
BSBE – East Carolina University

### Dr. Joseph “Alec” Newton

Administration and Deans  
Administrative and Professional Staff  
Associate Vice President for Instruction  
BS – University of Richmond  
DC – Life University

### Zomar Peter

Administration and Deans  
Administrative and Professional Staff  
Associate Vice President for Students  
BBA – Siena Heights University  
MA – Western Michigan University

### Denise Salerno

Administration and Deans  
Administrative and Professional Staff  
Associate Vice President for Administration/Human  
Resources  
BA, MPA – East Carolina University

# Personnel

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## Jeffrey Schulze

Administration and Deans  
Administrative and Professional Staff  
Dean – Volt Center  
BSEd – Bloomsburg University of Pennsylvania

## Dr. Gery Boucher

Executive Leadership Team  
Administration and Deans  
Administrative and Professional Staff  
Vice President for Development  
BA, MAEd – East Carolina University  
EdD – Northcentral University

## Administrative and Professional Staff

### Amanda Adamakis

Administrative and Professional Staff  
Academic Advisor  
BA, MS – East Carolina University

### Malakai Alexander

Administrative and Professional Staff  
IT Support Specialist

### Yvette Alexandrou

Administrative and Professional Staff  
Student Services Coordinator  
BS – University of Maine

### Erin Ananian-Gentile

Administrative and Professional Staff  
Business Development Professional  
BA – California State University  
MA – National University

### Jennifer Baer

Administrative and Professional Staff  
Director of Lifetime Learning Center and Community Engagement  
BS – University of Toledo

### Dendray Ballard

Administrative and Professional Staff  
Director of Security and Emergency Management  
BS – Purdue University Global

## Carlton Banks

Administrative and Professional Staff  
Contracts Coordinator  
AAS – Craven Community College

## Kaye Banks

Administrative and Professional Staff  
Accounting Assistant – Purchasing

## Kimberly Banks

Administrative and Professional Staff  
Executive Assistant to the Vice President for Development  
AA – Craven Community College

## Julian Barrow

Administrative and Professional Staff  
Custodian

## Stephanie Barrows

Administrative and Professional Staff  
Curriculum Program Specialist  
BS – Longwood University

## Sandy Bayliss-Carr

Administrative and Professional Staff  
Director of College and Career Readiness  
BS – Methodist University  
MAEd – East Carolina University

## Fredrick Bell

Administrative and Professional Staff  
Groundskeeper

## Matthew Bircher

Administrative and Professional Staff  
Admissions Specialist  
AA, AGE - Craven Community College  
BS - Appalachian State University

## Nicole Blackwell

Administrative and Professional Staff  
Senior Control Room Operator

## Julie Blythe

Administrative and Professional Staff  
College and Career Readiness Coordinator  
BS - East Carolina University

# Personnel

---

## Bill Bondurant

Administrative and Professional Staff  
Associate Dean of Student Services  
BA – Davis and Elkins College  
MA – Marshall University

## Christina Bowman

Administrative and Professional Staff  
Assistant Director, Foundation  
AA – Craven Community College

## Tara Brocklesby

Administrative and Professional Staff  
College and Career Readiness Coordinator  
AAS, AGE – Craven Community College  
BS – East Carolina University

## Angela Bryan

Administrative and Professional Staff  
Systems Administrator  
BS – University of Georgia

## Donell Bryant

Administrative and Professional Staff  
Barbering Program Manager/Instructor  
Barbering License-Head Quarters Styling Academy

## Tyrone Butler

Administrative and Professional Staff  
Senior Administrative Assistant - Teaching & Learning  
AS, BS - Lionel University

## Sarah Cayton

Administrative and Professional Staff  
Senior Administrative Assistant - Health Programs

## Margaret Chance

Administrative and Professional Staff  
Workforce Development Compliance Manager  
AGE – Craven Community College  
BSBE – East Carolina University

## Juvy Clay

Administrative and Professional Staff  
Custodial Supervisor  
BS – Samar State University

## Christopher Coffin

Administrative and Professional Staff  
Assistant Director of Facilities

## John Collins

Administrative and Professional Staff  
Facilities Maintenance Specialist

## Ethan Dahart

Administrative and Professional Staff  
Lead Testing Proctor

## Catherine Decker

Administrative and Professional Staff  
Director, Academic Support Center  
BS – East Carolina University  
MAEd – University of North Carolina at Wilmington

## Joann DeLeo

Administrative and Professional Staff  
Administrative Assistant - WFD

## Holly Desrosier

Administrative and Professional Staff  
Marketing & Communications Coordinator  
BS - North Carolina Wesleyan University

## Judith Dover

Administrative and Professional Staff  
Testing Proctor

## Emily Drake

Administrative and Professional Staff  
Librarian  
BS – Meredith College  
MLS – East Carolina University

## Victoria "Nicole" Dunn

Administrative and Professional Staff  
Research and Assessment Specialist  
AA - Craven Community College  
BFA – University of North Carolina - Wilmington

## Jay Eldred

Administrative and Professional Staff  
Admissions Specialist  
BA – Bob Jones University

# Personnel

---

## **Merlinda Elson**

Administrative and Professional Staff  
Custodian

## **Jennifer Erlitz**

Administrative and Professional Staff  
Controller  
AA – Craven Community College  
BSBA – East Carolina University

## **Alexander Everest**

Administrative and Professional Staff  
Campus Security Officer  
AA - Craven Community College

## **Kristen "Nikki" Gardner**

Administrative and Professional Staff  
Digital Learning Specialist  
BS – Appalachian State University

## **Herlene Garrett**

Administrative and Professional Staff  
Custodian

## **Pamela Gibbs**

Administrative and Professional Staff  
Accountant

## **Megan Gill**

Administrative and Professional Staff  
Director of Library Services  
BA, MSLS – University of North Carolina - Chapel Hill  
MAT – East Carolina University

## **Christopher Gruetzemacher**

Administrative and Professional Staff  
Custodian

## **Rodney Guldner**

Administrative and Professional Staff  
Organization Performance Improvement Lead  
Facilitator  
AA – Johnson County Community College  
BS – University of Central Florida  
MBA – Golden Gate University

## **Samuel Gyles**

Administrative and Professional Staff  
Testing Center Coordinator  
BM - East Carolina University

## **William Hale**

Administrative and Professional Staff  
Workforce Development Coordinator II - Surgical  
Technology  
BS - University of Mount Olive  
MBA - Liberty University

## **Ledesma Hamrick**

Administrative and Professional Staff  
Custodian

## **Elizabeth Harden**

Administrative and Professional Staff  
Assistant Director, Academic Support Center  
MPA - Virginia Commonwealth University

## **Taylor Heath**

Administrative and Professional Staff  
Facilities and Receiving Assistant  
AA, AGE – Craven Community College

## **Gregory Humphrey**

Administrative and Professional Staff  
Campus Security Officer

## **LaShawna Humphrey**

Administrative and Professional Staff  
WFD Support Services Manager  
AGE – Craven Community College

## **Matthew Humphrey**

Administrative and Professional Staff  
Groundskeeper

## **Rosa Ingram**

Administrative and Professional Staff  
Campus Life Coordinator  
BS, MEd - University of Mount Olive

# Personnel

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## **McKenna Jackson**

Administrative and Professional Staff  
Data Analyst  
BS - Liberty University  
MA - Middle Tennessee State University

## **Katie Jenkins**

Administrative and Professional Staff  
Workforce Development Coordinator II - Health Sciences  
AAS – Regent University

## **Richel Jerman**

Administrative and Professional Staff  
Custodian

## **Cheryl Jethro**

Administrative and Professional Staff  
Financial Aid Advisor II  
BS - East Carolina University

## **Paula Johnson**

Administrative and Professional Staff  
Associate Dean – Workforce Development  
MEd - Colorado State University

## **Christine "Cat" Johnson**

Administrative and Professional Staff  
ADA Coordinator  
AA – Craven Community College

## **Megan Johnson**

Administrative and Professional Staff  
Workforce Development Coordinator II - Havelock  
BA – East Carolina University

## **Jennifer Jones**

Administrative and Professional Staff  
Student Services Coordinator  
BS, MEd – Creighton University

## **Crystal Jones**

Administrative and Professional Staff  
Executive Director of Financial Aid  
BA – University of North Carolina at Charlotte  
MEd – American InterContinental University

## **Terri Jones**

Administrative and Professional Staff  
Career Coach  
BS – Brooklyn College

## **Sylvia King**

Administrative and Professional Staff  
Executive Director of Student Services - Havelock  
BS – Elizabeth City State University  
MBA – Colorado Technical University

## **Constance King**

Administrative and Professional Staff  
Academic Advisor  
AGE – Craven Community College  
BS – North Carolina Wesleyan College  
MA – Regent University

## **DeWitt King, Jr.**

Administrative and Professional Staff  
Senior Administrative Assistant- WFD  
BS - North Carolina Wesleyan University

## **Zebrina Kurnik-Hernandez**

Administrative and Professional Staff  
Administrative Assistant/Switchboard Operator  
AAS – Carteret Community College

## **Jonathan Larson**

Administrative and Professional Staff  
IT Technician

## **Gregory Layton**

Administrative and Professional Staff  
Custodian

## **Ashley Lee**

Administrative and Professional Staff  
Re-Entry Coordinator  
AAS, AGE – Craven Community College

## **Joseph Lee**

Administrative and Professional Staff  
Director of Information Security  
AAS, AGE – Craven Community College  
BS - Western Governors University

# Personnel

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## **Maurice Lewis**

Administrative and Professional Staff  
Accounting Assistant - Accounts Payable  
AAS – Pamlico Community College

## **Margaret Liddell**

Administrative and Professional Staff  
Accounting Assistant - Collections & Travel  
AGE – Craven Community College

## **Suzanne Madison**

Administrative and Professional Staff  
Community Enrichment Coordinator  
BS – Saint Peter's College  
MPH, PhD – Walden University

## **Meghan Maragarum**

Administrative and Professional Staff  
WFD Coordinator I – Volt Center

## **Fernanda Marinkovic**

Administrative and Professional Staff  
Accounting Assistant – Institutional Advancement  
AAS – Northern Virginia Community College

## **Agape Marion**

Administrative and Professional Staff  
Custodian

## **Dr. Jenifer Marquis**

Administration and Deans  
Administrative and Professional Staff  
Dean of Teaching and Learning  
AA – Cypress College  
BA – University of Iowa  
MA – University of Phoenix  
MS – National University  
PhD – Old Dominion University

## **Donna Marshall**

Administrative and Professional Staff  
Director of Admissions and Student Records  
BS – Appalachian State University  
MAEd – East Carolina University

## **Robin Matthews**

Administration and Deans  
Administrative and Professional Staff  
Dean of Workforce Development  
BA – Francis Marion University  
MBA – TUI University

## **Samantha McDonald**

Administrative and Professional Staff  
Academic Advisor – Career and College Promise  
BA, MA – University of North Carolina at Greensboro

## **Sheila Meadows**

Administrative and Professional Staff  
CDL Instructor

## **Drew Meadows**

Administrative and Professional Staff  
Associate Dean, Volt Center  
AA - Lenoir Community College  
BS, MS - East Carolina University

## **Ricky Meadows**

Administration and Deans  
Administrative and Professional Staff  
Dean of the Havelock Campus  
BSBE – East Carolina University

## **Alexis Mejias**

Administrative and Professional Staff  
Administrative Assistant – Student Services  
AA, AS, AGE – Craven Community College

## **John Melville**

Administrative and Professional Staff  
Executive Director of Facilities

## **Tangye Middleton**

Administrative and Professional Staff  
WFD Coordinator II  
BS– Campbell University  
MA – Duke University

## **Michelle Moran**

Administrative and Professional Staff  
Academic Support Specialist  
AA - New Mexico State University

# Personnel

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## Hiram "Todd" Murphrey

Administrative and Professional Staff  
Purchasing and Fixed Assets Coordinator  
BSBA – East Carolina University

## Randy Murphy

Administrative and Professional Staff  
Groundskeeper

## Marie Mynster

Administrative and Professional Staff  
Human Resources Specialist  
BA – Salisbury University

## Gerard "Gerry" Nansteel

Administrative and Professional Staff  
Telecommunications Analyst  
AAS – Craven Community College

## Abigail Nehrenberg

Administrative and Professional Staff  
IT Technician  
AA - Beaufort County Community College  
BS, MAEd - East Carolina University

## Dr. Joseph "Alec" Newton

Administration and Deans  
Administrative and Professional Staff  
Associate Vice President for Instruction  
BS – University of Richmond  
DC – Life University

## Leslie Olkowski

Administrative and Professional Staff  
Senior Administrative Assistant – Havelock  
AGE - Craven Community College

## Doyle Owings

Administrative and Professional Staff  
IT Technician – Havelock  
AAS- Craven Community College  
BS – Park University

## Floyd Parker

Administrative and Professional Staff  
Campus Security Officer

## Amanda Parrino

Administrative and Professional Staff  
Administrative Assistant – WFD

## Bianca Partsch

Administrative and Professional Staff  
Executive Assistant to the Vice President for  
Administration  
BA – State University of New York at Geneseo

## Hannah Partsch

Administrative and Professional Staff  
Senior Administrative Assistant – Facilities  
BA – Salem College

## Diana Peebles

Administrative and Professional Staff  
College and Career Readiness Instructor  
BA - University of North Carolina at Wilmington  
MAEd - East Carolina University

## Zomar Peter

Administration and Deans  
Administrative and Professional Staff  
Associate Vice President for Students  
BBA – Siena Heights University  
MA – Western Michigan University

## Michelle Pierce

Administrative and Professional Staff  
Director, Academic Support Center- Havelock  
BS – Appalachian State University

## Brittney Poole

Administrative and Professional Staff  
Custodian  
Custodian

## Sarah Pridgen

Administrative and Professional Staff  
Admissions Specialist  
BA – University of North Carolina at Greensboro

## Craig Ramey

Administrative and Professional Staff  
Executive Director of Community Engagement  
BA - East Carolina University  
MA – Queens University of Charlotte

# Personnel

---

## Mayte Ramirez

Administrative and Professional Staff  
Accounting Assistant - Cashier  
AS - Full Sail University

## Heather Rardin

Administrative and Professional Staff  
NC Career Coach  
BS - University of Phoenix  
MBA - Southern New Hampshire University

## Kylie Rautmann

Administrative and Professional Staff  
Senior Administrative Assistant - Career & Technical Programs  
BS - East Carolina University

## Kristi Reed

Administrative and Professional Staff  
Associate Dean, Teaching & Learning  
BS – Western Carolina University

## Sabrina Reels

Administrative and Professional Staff  
Senior Administrative Assistant - Volt Center  
AAS - Craven Community College  
BS - Liberty University

## Gregory "Neal" Register

Administrative and Professional Staff  
Director of Management Information Systems  
AAS – Craven Community College

## Michael Richardson

Administrative and Professional Staff  
Campus Security Officer  
BS – Livingstone College

## Patricia Riggs

Administrative and Professional Staff  
Senior Administrative Assistant – Arts & Sciences  
AAS - Craven Community College  
BS - North Carolina State University

## Barbara Rowe

Administrative and Professional Staff  
Custodian

## Christopher Rowe

Administrative and Professional Staff  
IT Coordinator  
AA, AS – Craven Community College

## Jerry Rowe

Administrative and Professional Staff  
Administrative Assistant - Facilities

## Timothy Rowe

Administrative and Professional Staff  
Network Support Technician  
AAS – Craven Community College

## Cindy Russo

Administrative and Professional Staff  
Career & Technical Programs Support Services Manager  
AAS – Craven Community College

## Christine Sachs

Administrative and Professional Staff  
Executive Director of Financial Services  
BA – Trinity International University  
MBA - Capella University

## Denise Salerno

Administration and Deans  
Administrative and Professional Staff  
Associate Vice President for Administration/Human Resources  
BA, MPA – East Carolina University

## Nicole Schoonover

Administrative and Professional Staff  
Accounting Assistant - Accounts Receivable  
AAS - Martin Community College

## Jeffrey Schulze

Administration and Deans  
Administrative and Professional Staff  
Dean – Volt Center  
BSEd – Bloomsburg University of Pennsylvania

## Susan Seeman

Administrative and Professional Staff  
Academic Advisor  
BS, MEd – University of Pittsburgh

# Personnel

---

## **Rose Sexton**

Administrative and Professional Staff  
Executive Assistant to the Vice President for Instruction  
AAS – Craven Community College

## **Kisha Simpson**

Administrative and Professional Staff  
Director of Student Accounts  
BS – Methodist University

## **Jimmy Singleton**

Administrative and Professional Staff  
Facilities Maintenance Specialist  
AAS - Craven Community College  
BS – University of Mount Olive

## **Amber Smith**

Administrative and Professional Staff  
Executive Assistant to the President & Board of Trustees  
AA – Pennsylvania State University

## **Sabra Smith**

Administrative and Professional Staff  
Payroll and Benefits Specialist  
AAS – Craven Community College

## **Philly Solano**

Administrative and Professional Staff  
Veterans Affairs Coordinator  
BA – North Carolina State University  
MAEd – East Carolina University

## **Joseph Soccia**

Administrative and Professional Staff  
Multimedia Specialist  
BFA - Florida Southern College

## **Damonte Stancil**

Administrative and Professional Staff  
Assistant Registrar  
AAS – Craven Community College  
BS - East Carolina University

## **Jonathan Stephens**

Administrative and Professional Staff  
Workforce Development Coordinator II/Lead Instructor - EMS Programs

## **Rodnekia Stewart**

Administrative and Professional Staff  
Financial Aid Advisor I  
BA - North Carolina Wesleyan College

## **Francis "Blackwell" Stith**

Administrative and Professional Staff  
Office 365 Systems Administrator  
AGE, AAS – Craven Community College

## **Nathaniel Stout**

Administrative and Professional Staff  
Director of Advising & Counseling  
AA – Central Texas College  
BS, MA – Liberty University

## **Carrie Strait**

Administrative and Professional Staff  
Accountant  
BA - West Liberty University

## **Sarai Sumner**

Administrative and Professional Staff  
TRIO Success Coordinator  
BA – Andrews University

## **Katie Swanson**

Administrative and Professional Staff  
Assistant Director of Financial Aid  
BA – North Carolina State University

## **Jimmie Swinson**

Administrative and Professional Staff  
Senior Trades Instructor – VOLT Center

## **David Tallman**

Administrative and Professional Staff  
Custodian

## **Joi Taylor**

Administrative and Professional Staff  
Financial Aid Advisor II - Havelock  
BS – Ohio University

## **Mickey Tillman**

Administrative and Professional Staff  
Industry Programs Coordinator- Volt Center

# Personnel

---

## Shawn Toderick

Administrative and Professional Staff  
Associate Dean of Technology Services  
BS, MS – East Carolina University

## Elizabeth Tolson

Administrative and Professional Staff  
Student Helpdesk Technician  
AA – Peace College  
BS – East Carolina University  
MS – Capitol College

## Andrew Tyndall

Administrative and Professional Staff  
Registrar  
BA – University of North Carolina at Charlotte

## Theodore Uldrich

Administrative and Professional Staff  
Campus Security Officer  
AA, AGE, AAS - Craven Community College

## Teressa VanSickle

Administrative and Professional Staff  
Director, CTL & CCP Support  
BA, MA – East Carolina University  
MED – University of Georgia

## Patricia Voliva

Administrative and Professional Staff  
Workforce Development Coordinator I – Health Sciences  
AAS - Craven Community College

## Julie Weddle

Administrative and Professional Staff  
Director, TRIO- Student Support Services  
BS – Ferrum College  
MSEd – Virginia Tech

## Jonathan Weldin

Administrative and Professional Staff  
Network Administrator  
BS - Western Governors University

## Charles Wethington

Administrative and Professional Staff  
Craven Community College Foundation Board Members, Ex-officio members  
Executive Director of Institutional Advancement  
AAS – Lenoir Community College

## Kristin White

Administrative and Professional Staff  
Accountant  
BS, MBA - Johnson and Wales University

## Terry White

Administrative and Professional Staff  
Facilities Maintenance Specialist

## Katherine Wilcox

Administrative and Professional Staff  
College and Career Readiness Coordinator  
AAS – SUNY at Delhi  
BA – Pace University

## Jeffrey Wilke

Administrative and Professional Staff  
Director of the Small Business Center  
BA, MBA – Saint Leo University  
DBA – Argosy University

## Danielle Williams

Administrative and Professional Staff  
Student Services Coordinator  
BA - Queens University of Charlotte

## Antoinette Williams

Administrative and Professional Staff  
Senior Administrative Assistant – Havelock

## Keith Williams

Administrative and Professional Staff  
Director of Environmental Health and Safety  
Bachelor of Ministry – Omega Bible Institute and Seminary

## Brandon Williams

Administrative and Professional Staff  
Administrative Assistant – Institutional Effectiveness  
BS - University of Mount Olive

# Personnel

---

## Angela Wilson

Administrative and Professional Staff  
Director of Craven-Pamlico Reentry Program

## Cheryl Wolz

Administrative and Professional Staff  
Custodian

## Lawrence Wren

Administrative and Professional Staff  
Facilities Technician Assistant

## Dr. Raymond Staats

Executive Leadership Team  
Administrative and Professional Staff  
Craven Community College Foundation Board  
Members, Ex-officio members  
President  
BA – Syracuse University  
MS – Air Force Institute of Technology  
PhD – Virginia Tech

## Dr. Kathleen M. Gallman

Executive Leadership Team  
Administrative and Professional Staff  
VP for Instruction/Chief Academic Officer  
AAS – Hudson Valley Community College  
AAS – Craven Community College  
BSN – East Carolina University  
MSN – Duke University  
PhD – Northcentral University

## Mr. James “Jim” Millard

Executive Leadership Team  
Administrative and Professional Staff  
Craven Community College Foundation Board  
Members, Ex-officio members  
Vice President for Administration  
BS – Park University  
MS – East Carolina University

## Dr. Gery Boucher

Executive Leadership Team  
Administration and Deans  
Administrative and Professional Staff  
Vice President for Development  
BA, MAEd – East Carolina University  
EdD – Northcentral University

## Board of Education’s Appointees

### Ms. Pamela Holder

Board of Education’s Appointees

### Sheriff Fred "Chip" Hughes

Board of Education’s Appointees

### Mrs. Jennifer O’Neill

Board of Education’s Appointees

## County Commissioners’ Appointees

### Dr. Jim Davis

County Commissioners’ Appointees  
Craven Community College Board of Trustees  
Vice Chair

### Mrs. E.T. Mitchell

County Commissioners’ Appointees

### Dr. Ervin Patrick

County Commissioners’ Appointees  
Craven Community College Board of Trustees  
Craven Community College Foundation Board  
Members, Ex-officio members  
Chair

### Mr. Augustus Willis

County Commissioners’ Appointees

## Craven Community College Board of Trustees

### Dr. Jim Davis

County Commissioners’ Appointees  
Craven Community College Board of Trustees  
Vice Chair

# Personnel

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## **Dr. Ervin Patrick**

County Commissioners' Appointees  
Craven Community College Board of Trustees  
Craven Community College Foundation Board  
Members, Ex-officio members  
Chair

## **Craven Community College Foundation Board Members**

### **Mrs. Carol Becton**

Craven Community College Foundation Board Members

### **Dr. James B. Congleton, III**

Craven Community College Foundation Board Members

### **Mr. Charles Cushman**

Craven Community College Foundation Board Members

### **Bishop Charles T. Dudley**

Craven Community College Foundation Board Members

### **Dr. Dwight Grady**

Craven Community College Foundation Board Members

### **Mr. Tyler Harris**

Craven Community College Foundation Board Members  
President

### **Ms. NaTayah Hill**

Craven Community College Foundation Board Members

### **Mr. Robert Johnson**

Craven Community College Foundation Board Members

### **Dr. Virginia Johnson**

Craven Community College Foundation Board Members

### **Mrs. Carole B. Kemp**

Craven Community College Foundation Board Members

### **Mr. Lee Knott**

Craven Community College Foundation Board Members

### **Ms. Ashley Martin-Irizarry**

Craven Community College Foundation Board Members

### **Mr. John Robert Mattocks**

Craven Community College Foundation Board Members

### **Dr. Bettina Meekins**

Craven Community College Foundation Board Members

### **Mrs. Hannah Mitchell**

Craven Community College Foundation Board Members

### **The Honorable Beverly E. Perdue**

Craven Community College Foundation Board Members

### **Mrs. Anne C. Schout**

Craven Community College Foundation Board Members

### **Ms. Karen Segal**

Craven Community College Foundation Board Members

### **Mrs. Terri W. Sharp**

Craven Community College Foundation Board Members

### **Mrs. Tammy Sherron**

Craven Community College Foundation Board Members  
Vice President/President Elect

### **Mr. Craig A. Warren**

Craven Community College Foundation Board Members

### **Dr. Kenneth Wilkins**

Craven Community College Foundation Board Members

# Personnel

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## Craven Community College Foundation Board Members, Ex-officio members

### **Ms. Linda MacDonald**

Craven Community College Foundation Board  
Members, Ex-officio members  
Director Emeritus

### **Mr. Stephen Nuckolls**

Craven Community College Foundation Board  
Members, Ex-officio members  
Director Emeritus

### **Dr. Ervin Patrick**

County Commissioners' Appointees  
Craven Community College Board of Trustees  
Craven Community College Foundation Board  
Members, Ex-officio members  
Chair

### **Charles Wethington**

Administrative and Professional Staff  
Craven Community College Foundation Board  
Members, Ex-officio members  
Executive Director of Institutional Advancement  
AAS – Lenoir Community College

### **Dr. Raymond Staats**

Executive Leadership Team  
Administrative and Professional Staff  
Craven Community College Foundation Board  
Members, Ex-officio members  
President  
BA – Syracuse University  
MS – Air Force Institute of Technology  
PhD – Virginia Tech

### **Mr. James “Jim” Millard**

Executive Leadership Team  
Administrative and Professional Staff  
Craven Community College Foundation Board  
Members, Ex-officio members  
Vice President for Administration  
BS – Park University  
MS – East Carolina University

## Craven Early College

### **Marlow Artis, EdD**

Craven Early College  
Dean of Craven Early College High School  
BA – University of North Carolina at Chapel Hill  
MSA – University of North Carolina at Wilmington  
EdD – Western Carolina University

### **Rachael Cazares-Medlin**

Craven Early College  
Spanish Educator  
BA - Meredith College  
MA - Middlebury College

### **Allison Edwards**

Craven Early College  
College Readiness Partnership Coordinator  
BA – Meredith College

### **Tim Ellis**

Craven Early College  
Mathematics Educator  
BA – University of North Carolina at Wilmington

### **Jessica Hart**

Craven Early College  
Student Success Coordinator/Teacher Assistant

### **Jimmi Hobbs**

Craven Early College  
Mathematics Educator  
BA, MSA, M.Ed – East Carolina University

### **Hilary Lucas**

Craven Early College  
School Counselor  
BS - East Carolina University  
MEd - Liberty University

### **Charleen Lukasiewicz**

Craven Early College  
Administrative Assistant  
AAS - Bryant & Stratton College

# Personnel

---

## Andrea Midgette

Craven Early College  
Science Educator  
BS, MS – East Carolina University

## Kimberly Rispress

Craven Early College  
Science Educator  
BS, MS - East Carolina University

## Andrew Ross

Craven Early College  
Social Studies Educator  
AA - Craven Community College  
BA, BS - East Carolina University

## Justin Saulter

Craven Early College  
Social Studies Educator  
BA – East Carolina University

## Alison Strommer

Craven Early College  
English Educator  
BA – East Carolina University

## Early College EAST

## Penny Callaway

Early College EAST  
Teacher Assistant

## Melissa Chambers

Early College EAST  
ECP Educator  
BS - East Carolina University  
MEd - American College of Education

## Thomas Ebert

Early College EAST  
Mathematics Educator  
BS – Averett University  
MA – North Carolina A&T University

## Misty Guthrie

Early College EAST  
CTE Educator  
BS - East Carolina University

## Matthew Ipock

Early College EAST  
Science Educator  
BS – North Carolina State University  
MS – University of Hong Kong

## Courtney Mickey

Early College EAST  
Teacher Assistant  
AAS - College of the Albemarle

## John Nelson

Early College EAST  
Social Studies Educator  
BS, BA – East Carolina University

## Nerissa Nichols

Early College EAST  
Mathematics Educator  
BS - University of North Carolina at Charlotte

## Melissa Parsons

Early College EAST  
English Educator  
BS, MA – East Carolina University

## Debbie Sabin

Early College EAST  
Counselor  
BA – University of North Carolina at Wilmington  
MS – East Carolina University

## Crystal Sanders

Early College EAST  
College and Career Readiness Coordinator  
BS - University of North Carolina at Wilmington  
M.Ed- Liberty University

## Pamela Slater

Early College EAST  
Science Educator  
BS - Lehigh University  
MS - North Carolina State University

# Personnel

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## **Kris Thompson**

Early College EAST  
Dean of Early College -EAST  
BS, MLS – East Carolina University

## **Anna Whitlock**

Early College EAST  
English Educator  
BA – University of Central Florida

## **Faculty**

### **Debbie Audilet**

Faculty  
English Faculty  
BA, MA – East Carolina University

### **Laura Avery**

Faculty  
Criminal Justice Faculty  
AA – Carteret Community College  
BS – University of Mount Olive  
MA – Fayetteville State University

### **Joshua Barbre**

Faculty  
Fine Arts Coordinator/Music Faculty  
AA - St. Louis Community College  
BM – University of Missouri- Columbia  
MM - University of Arizona

### **Sheila Belcher**

Faculty  
Nursing Faculty  
ADN – Coastal Carolina Community College  
BSN – University of Phoenix  
MSN – University of North Carolina at Wilmington

### **Sharon Bellrose**

Faculty  
Nursing Faculty  
ASN – Vermont Technical College  
BSN, MSN – Western Governors University

## **Matthew Berg**

Faculty  
Dean of Career & Technical Programs  
AS – Lenoir Community College  
BS – East Carolina University  
MBA – University of North Carolina at Pembroke

## **Katrina Bishop**

Faculty  
Dean of Arts & Sciences  
BS – University of Alabama  
MS – Boston University

## **Alexander Block**

Faculty  
CNC Machinist Faculty  
AAS, AGE – Craven Community College

## **Jennifer Bogdanoff**

Faculty  
Biology Faculty  
BS – Stockton University  
MS – Coastal Carolina University

## **Christine Boy**

Faculty  
Engineering Faculty  
BS, MS – Florida State University

## **Joseph Russell Boyce**

Faculty  
Director of Aviation Systems Technology  
AAS – Craven Community College  
BS – Liberty University

## **Jeffrey Brown**

Faculty  
Computer-Aided Drafting Faculty  
AAS – Wayne Community College  
BS – Liberty University

## **Donald Carpenetti, II**

Faculty  
Chemistry Faculty  
BS – University of Pittsburgh  
MS – West Virginia University

# Personnel

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## Jessica Cofield

Faculty  
Biology Faculty  
BS, MS – Auburn University

## Hanie Cole

Faculty  
Industrial Systems Technology Faculty  
AAS - Beaufort County Community College  
BS, MA - East Carolina University

## Kevin Cosnahan

Faculty  
Mathematics Faculty  
BS, MS – University of North Carolina at Wilmington

## Beverly Craft

Faculty  
Health Information Technology/Medical Office  
Administration Faculty  
BS – East Carolina University

## Magfirah Dahlan-Taylor, PhD

Faculty  
Humanities/Philosophy/Religion/Political Science  
Faculty  
BS – University of London  
MA – University of Hull  
MA – Erasmus University Rotterdam  
PhD – Virginia Tech

## William Dams

Faculty  
Accounting Faculty  
AA – Craven Community College  
BS, MBA – East Carolina University

## Alysa Darling

Faculty  
Mathematics Faculty  
BS – North Carolina State University  
MAEd – East Carolina University

## Maria Eid

Faculty  
Early Childhood Faculty  
AAT – Montgomery College  
BA – Washington Adventist University  
MS – Walden University

## Tiane Ellis

Faculty  
Mathematics Faculty  
BS, MS – Fayetteville State University

## Quincy Foley

Faculty  
English Faculty  
BA – University of Texas  
MLA – University of North Carolina at Asheville

## Mitchell Fortescue

Faculty  
Psychology Faculty  
BA, MA – North Carolina State University

## Angela Foster, EdD

Faculty  
Communications Faculty  
BA, EdD – North Carolina State University  
MS – East Carolina University

## Daniel Friedlander, DPT

Faculty  
Physical Therapists Assistant Program Director/Faculty  
BS, DPT – University of Kentucky

## Robin Gibson-Brown

Faculty  
Biology Faculty  
BA – University of North Carolina at Greensboro  
MS – East Carolina University

## Karen Grubb

Faculty  
PTA Clinical Education Coordinator  
AAS – Craven Community College  
BS – North Carolina Wesleyan College

## Dorothy Higgins

Faculty  
Nursing Faculty  
BSN, MSN, DNP – Grand Canyon University

## Shelly Hines, PhD

Faculty  
Spanish Faculty  
BA – Centre College  
MA, PhD – University of Alabama

# Personnel

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## Benjamin Hogwood

Faculty  
English Faculty  
BA – Johnson State College  
MA – East Carolina University

## Derek Hollister

Faculty  
Welding Faculty  
AAS, AGE - Craven Community College

## Denise Holloman

Faculty  
Mathematics Faculty  
BS – Bowling Green State University  
MAEd – East Carolina University

## Tara Howry

Faculty  
Nursing Faculty  
BSN – George Mason University  
MSN – East Carolina University

## Harvey “Walt” Hurst

Faculty  
Automotive Systems Technology Faculty  
BA – East Carolina University

## Kimberly Ireland

Faculty  
Esthetics Faculty  
AAS - Craven Community College

## Lauren Jannik

Faculty  
Nursing Faculty  
AAS - Wake Technical Community College  
BS - Presbyterian College  
BSN, MSN - University of North Carolina at Wilmington

## Alexander Jestness

Faculty  
Automotive Systems Technology Faculty  
AAS - Craven Community College

## Sara Jones

Faculty  
Science Lab Coordinator/Faculty  
BS – University of North Carolina at Wilmington  
MS – College of Charleston

## Timothy Jones

Faculty  
Physics Faculty  
BA – Saint John’s College  
MS - Rensselaer Poly Tech Institute  
MS – Southern Illinois University

## Hunter Jones

Faculty  
Welding Faculty  
AAS - Pitt Community College

## Deborah Kania

Faculty  
Business Administration Faculty  
BFA – University of Massachusetts at Dartmouth  
MBA – Virginia Tech

## Michael Keirn

Faculty  
Mechatronics Engineering Technology Faculty  
AA – Community College of the Air Force

## Michael Keith

Faculty  
Welding Faculty

## Cameron Kishel

Faculty  
Associate Dean of the Havelock Campus  
BS, MA – Otterbein University  
MA – Ohio State University

## Mary Elaine Knight

Faculty  
Nursing Faculty  
BSN, MSN - University of North Carolina at Charlotte

## Terry "Nick" Krupey

Faculty  
Aviation Systems Technology Faculty  
AS, BS – Embry-Riddle Aeronautical University

# Personnel

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## **Tyler Leaser**

Faculty  
Associate Dean of Arts & Sciences  
BS – North Carolina State University  
MA – East Carolina University

## **Carmela Magliocchi-Byrnes, PhD**

Faculty  
Chemistry Faculty  
BEd, BS – York University  
PhD – Texas A&M University

## **Kelsie McBride**

Faculty  
Nursing Faculty  
BSN – Western Carolina University  
MSN – Norwich University

## **Gena McKinley, PhD**

Faculty  
Associate Dean of Arts & Sciences  
BA – East Carolina University  
MA – University of North Carolina at Chapel Hill  
PhD – University of Virginia

## **Amanda Mercer**

Faculty  
Cosmetology Faculty  
Certificate – James Sprunt Community College  
AGE, AAS – James Sprunt Community College

## **Chinmoy Modak**

Faculty  
Information Technology Faculty  
MS - Florida Polytechnic University

## **Teri Morris**

Faculty  
Nursing Faculty  
AGE, AAS - Craven Community College  
BSN, MSN - University of North Carolina at Wilmington

## **Sarah Nichols**

Faculty  
Nursing Faculty  
BSN, MSN – East Carolina University

## **Brad Nicolajsen**

Faculty  
Information Technology Faculty  
BS, MS – East Carolina University

## **Erin Racicot**

Faculty  
Lead Cosmetology Faculty  
AAS – Wake Technical Community College  
Teacher's License – NC State Board of Cosmetic Art  
Examiners

## **Leonard Romano**

Faculty  
Physical Education/Health Faculty  
BS – Pennsylvania State University  
MS – Wilkes University

## **Edward Sabat**

Faculty  
Mathematics Faculty  
BS, MAEd – East Carolina University  
EdD - University of South Carolina

## **Michael Sagaser**

Faculty  
Mathematics Faculty  
BS – University of Arizona  
MS – Naval Postgraduate School

## **Jessica Saxon, PhD**

Faculty  
English Faculty  
BA – University of North Carolina at Chapel Hill  
MA – North Carolina State University  
PhD – Old Dominion University

## **Robert Seip**

Faculty  
Physics Faculty  
AAS - Northampton County Area Community College  
AS - Carteret Community College  
BS, MS - East Carolina University

## **Cynthia Seymour**

Faculty  
Biology Faculty  
BS, MA – East Carolina University

# Personnel

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## Crystal Smith

Faculty  
Health Information Technology Program Director/  
Faculty  
AAS – Pitt Community College  
BS, MS – Western Carolina University

## Milton "Graham" Spann, PhD

Faculty  
Sociology Faculty  
BA, MA – Appalachian State University  
PhD – North Carolina State University

## Elizabeth Spencer

Faculty  
Art Faculty  
BFA – Murray State University  
MFA – University of Massachusetts at Dartmouth

## Lindsey Sugg

Faculty  
Machining and Manufacturing Technology Faculty  
Diploma - Craven Community College

## Patrice Suggs

Faculty  
English Faculty  
BA – University of North Carolina at Wilmington  
MFA – Bowling Green State University

## Margaret "Alexa" Tarplee

Faculty  
Medical Assisting Program Director/Faculty  
AAS – Miller-Motte College

## Kelley Toler

Faculty  
Simulation Coordinator/Nursing Faculty  
BSN - Longwood University  
MSN - Capella University

## James Underwood

Faculty  
History Faculty  
BA – West Georgia College  
BA, MA – Valdosta State University

## Annette Walker

Faculty  
Information Technology Faculty  
BS – Portland State University  
MS – East Carolina University

## James Ward

Faculty  
Basic Law Enforcement Training Coordinator/Instructor  
BS – Mount Olive College

## Caleb Wetherington

Faculty  
Welding Faculty  
AAS – Lenoir Community College

## John Willis

Faculty  
Business Administration Faculty  
AA, AS, AGE - Craven Community College  
BS, MPH - East Carolina University

## Colleen Wincentsen

Faculty  
Director of Medical Office Administration  
BA – University of Wisconsin at Oshkosh  
MHA – University of Phoenix

## Faculty and Staff Emeriti

### Rita Barrow

Faculty and Staff Emeriti  
Custodian

### Patricia Batten

Faculty and Staff Emeriti  
Cosmetology Faculty  
Diploma – Craven Community College

### Joyce Belfance

Faculty and Staff Emeriti  
Nursing Faculty  
BSN – East Carolina University  
MSN – Duke University

# Personnel

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## Mark Best

Faculty and Staff Emeriti  
Director of Workforce Readiness and Special Programs  
BS – Fayetteville State University

## Bambi Edwards

Faculty and Staff Emeriti  
Business Faculty  
AAS – Beaufort County Community College  
BSA, MBA – East Carolina University

## Philip S. Evancho

Faculty and Staff Emeriti  
Maestro  
BMusEd – Baldwin-Wallace Conservatory of Music  
MMus – University of Akron

## John Fonville

Faculty and Staff Emeriti  
Registrar  
AAS – Craven Community College  
BS – University of North Carolina – Chapel Hill  
MEd – East Carolina University

## Diane Hartge - deceased

Faculty and Staff Emeriti  
Business Faculty  
BS – Shippensburg University

## Dr. Betty Hatcher

Faculty and Staff Emeriti  
Associate Vice President for Instruction  
AA – Craven Community College  
BA, MA – East Carolina University  
DM – University of Maryland

## Robert J. Husson

Faculty and Staff Emeriti  
Computer Tech Integration Faculty  
BA-University of Notre Dame  
MS – The Johns Hopkins University

## Carolyn S. Jones

Faculty and Staff Emeriti  
Nursing Faculty  
BSN, MEd, MSN – East Carolina University

## Suzanne Kaylor

Faculty and Staff Emeriti  
English Faculty  
BA – Agnes Scott College  
MA – East Carolina University

## Lealer R. King

Faculty and Staff Emeriti  
English/Reading Faculty  
BA – Bennett College

## Murdina D. MacDonald, PhD

Faculty and Staff Emeriti  
Social Sciences and Foreign Languages Faculty  
BA – University of Hawaii  
MDiv – Southeastern Baptist Theological Seminary  
PhD – Oxford University

## Millicent McLean

Faculty and Staff Emeriti  
Academic Advisor  
BA – University of North Carolina at Chapel Hill  
MAEd – East Carolina University

## Karen Nelson

Faculty and Staff Emeriti  
Reading/English Faculty  
BA, MA – Appalachian State University

## Jonathan Pharr

Faculty and Staff Emeriti  
Chemistry Faculty  
BA, MEd – East Carolina University

## Diane Tyndall

Faculty and Staff Emeriti  
Business Faculty  
AB – University of North Carolina at Chapel Hill  
MAEd – East Carolina University

## Michael Williams

Faculty and Staff Emeriti  
Machining Faculty  
AAS – Asheville-Buncombe Technical Community College

## Kimberly Zaccardelli

Faculty and Staff Emeriti  
WFD Coordinator I - Havelock

# Personnel

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## Governor's Appointees

### Mr. Tabari Wallace

Governor's Appointees

### Mr. Whit Whitley

Governor's Appointees

## House of Representatives Appointees

### Mr. Kevin Roberts

House of Representatives Appointees

## Public Radio East

### Kelly Batchelor

Public Radio East  
Program Director  
AA – Lenoir Community College

### Jared Brumbaugh

Public Radio East  
Assistant General Manager

### Ben Donnelly

Public Radio East  
General Manager  
BS – Miami University  
MA – University of North Carolina at Chapel Hill

### Annette Weston- Riggs

Public Radio East  
News Coordinator

## Senate Appointees

### Mr. Steve Cella

Senate Appointees

### Ms. Sandra Phelps

Senate Appointees