

2014-2015 Catalog

Founded 1965

An institution of higher education
established by authority of the
North Carolina General Assembly and
supported by Craven County.

An equal opportunity educational employer.



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

Cherry Point Center

4335 C Street, EDTR Building Room 109
Cherry Point, North Carolina 28533
(252) 444-6000

Craven Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate degrees. Contact the Commission on Colleges for questions related to the status of Craven Community College at this address:

*1866 Southern Lane
Decatur, Georgia 30033-4097
Phone: 404.679.4501*

Updates to the College Catalog will be posted to the College website: www.CravenCC.edu.

The college is committed to equality in employment and educational opportunity and does not discriminate against applicants for employment, employees, applicants for admission, students, or other recipients of or participants in College services, programs, or activities on the basis of any legally protected status.

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■ Message from the President

I am pleased to welcome you to Craven Community College the 2014-15 academic year!

Regardless of whether you are pursuing a career program, a university transfer pathway or another learning option, I am certain that you will be happy that you have chosen Craven as the place to continue your education.

Your decision to enroll at Craven is a good one. You are more than just a number here; you are becoming part of a thriving community of learners made up of people of all ages and backgrounds.

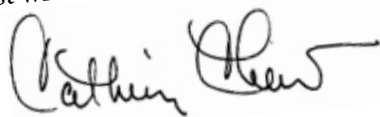
Like nearly all community colleges, Craven's student body consists of men and women who recently graduated from high school and adults who have returned to college to complete a degree, to change careers or to improve their current job skills. We are committed to the "open door and completion" philosophy, which means we're here to allow all students the opportunity to succeed and complete a program of study.

We recognize the decision to enroll at college is not always an easy one. Many students who come to Craven are uncertain whether they'll be able to meet the demands of being a college student and succeed. I want you to know that we understand how you feel and we are dedicated to helping you make a successful transition to college.

Our E3—Engage, Enrich, Empower initiative is specifically designed to help new students understand what to expect at college and to be prepared for this important next step.

It is an exciting time to be at the college. We're adding new programs and learning pathways and we're making changes to make Craven a more attractive and inviting place. There are great people at Craven Community College who are committed to your success. I hope you have a fantastic academic year!

Best wishes,



Dr. Catherine Chew
President



About Craven

■ 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.

Craven Community College fulfills this 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.

Developmental Education 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.

Occupational 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 post-secondary liberal arts studies.

■ Vision Statement

By 2015, Craven Community College will be recognized as a vibrant community college focused on student success and lifelong learning through innovative community partnerships, cultural arts programming, military educational services, public radio and workforce training.

■ About Craven Community College

Craven Community College serves Craven County's 103,000 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.

Craven has two campuses – one in New Bern and one in Havelock. The college also operates an office and classrooms in the Jerry Marvel Training Center on base at the Marine Corps Air Station Cherry Point.

In addition to offering traditional seated classes in New Bern, Havelock and at Cherry Point, Craven has a robust distance education program that allows students to take courses online. The college has several degree, diploma and certificate programs that can be completed online.

Craven enrolls about 5,200 students in its curriculum (credit) educational offerings programs each year. More than 11,000 students are served in the college's Workforce Development programs annually. The average age is 29. Craven's average class size is 16.

Craven offers two-year associate's degrees, including Associate in Arts, Associate in Fine Arts, Associate in Science, 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 at no cost. Students should consult their high school guidance counselors for more information.

Craven 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, 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 Campus 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's 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. 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 Cherry Point Marine Corps Air Station. In January 2004, the 24-acre Havelock Campus, including the Institute of Aeronautical Technology, opened for classes.

The College has been served by four Presidents: Dr. Thurman Brock, Dr. Steve Redd, Dr. Scott Ralls and, currently, Dr. Catherine Chew.

Community colleges have their own local Boards of Trustees. Four members each are elected by the local school board and the board of County Commissioners, while four members are appointed by the Governor.

About Craven

■ About the North Carolina Community College System

North Carolina's 58 statewide institutions bring educational opportunity within commuting distance of virtually all North Carolina citizens and comprise the nation's third largest, centrally managed system of community college and technical education.

The mission of the North Carolina Community College System is to open the door to high-quality, accessible educational opportunities that minimize the barriers to post-secondary education, maximize student success, develop a globally and multi-culturally competent workforce, and improve the lives and well-being of individuals by providing:

- 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 in collaboration with the University of North Carolina System and private colleges and universities; and
- Services to communities and individuals which improve the quality of life.

The North Carolina Community College System offers 2,500 curriculum programs under more than 290 curriculum titles. Programs are offered at the certificate, diploma and the Associate in Applied Science degree levels as well as at the Associate in Arts, Associate in Fine Arts and Associate in Science degree levels for college transfer students.

The North Carolina Community College System is governed by a State Board of Trustees, appointed by the Governor and the General Assembly, which determines the policies to be followed by the 58 state-supported institutions.

■ Notice to Students

THIS CATALOG IS NOT A CONTRACT AND IS NOT AN OFFER TO ENTER INTO A CONTRACT. Craven Community College publishes this Catalog for the convenience of students and other interested persons by providing a central location for information about the College and its programs. While every effort is made to ensure the accuracy of the information provided in this Catalog, it must be understood that all courses, course descriptions, designations of instructors, curricular and degree requirements and other academic information set forth in the Catalog are subject to change or elimination at any time and without prior notice. Fees and all other charges are subject to change at any time without prior notice. Students should consult the appropriate academic or administrative department for currently accurate information on any matters described in this Catalog.



■ General Admissions Procedures

Craven Community College operates under an Open Door policy for applicants who are high school graduates, who are at least 18 years of age, and whose admission eligibility conforms to North Carolina law and North Carolina Community College System directives. The high school graduation requirement is met by graduation from high school or by possession of a state High School Diploma Equivalency (GED Diploma) or by possession of an Adult High School Diploma. Currently enrolled 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 to the program. A physical exam may be required when deemed necessary by college officials, particularly in limited admissions programs.

■ Admission Process

1. Complete Application

Students may apply for admission on a full-time or part-time basis. First-time and transfer students are welcome. Former Craven Community College students who were previously enrolled, but have not attended the College for one year or more, are required to complete a new application.

Students are encouraged to apply online at www.CravenCC.edu (click the "APPLY" link). Students may also request applications by mail, in person or by email (admissions@cravencc.edu).

New Bern Campus 800 College Court New Bern, NC 28562 (252) 638-7200	Havelock Campus 305 Cunningham Blvd. Havelock, NC 28532 (252) 444-2119
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Important Note: Student E-mail

Each student applying to the College receives a student e-mail account, which is the college's official means for contacting students. Information about the email account is included in the admission letter mailed to each applicant. Additional information critical to student success, financial aid and academic standing is communicated through student e-mail accounts. Students are responsible for regularly checking this e-mail.

2. Provide Transcripts

High School or GED transcripts: An official high school or GED transcript is required and must show graduation or GED certification date. The high school transcript should be sent directly to the college from the last high school attended.

North Carolina GED transcript requests may be mailed or faxed to:
State GED Office
North Carolina Community College System
5016 Mail Service Center
Raleigh, NC 27699
Fax: (919) 807-7164

This requirement may be waived if an applicant has an Associate or higher degree.

College Transcripts: Prospective transfer students must submit an official copy of transcripts from all previous colleges even if no credit was earned. Only previous college courses completed with a grade of "C" (2.0) or higher will be eligible for transfer consideration.

3. Take the Placement Test

Students are required to take the College Placement Test prior to registering for courses. The college may waive placement tests for students who have SAT scores of 500 on writing, reading and/or math or ACT scores of English-18, reading-22, and/or mathematics-22 (if the SAT or ACT was taken within the past five years). The Placement Test assesses students' readiness for college-level courses by evaluating their reading, writing and mathematics skills. The results of these assessments assist the College in placing students in courses at the appropriate level to assist in their successful completion of courses.

Placement in Developmental Studies coursework is based upon (1) scores on the placement test taken during the admissions process or (2) referral by instructors with adherence to course prerequisites. If a student's placement test results indicate a need for additional growth in reading, writing and/or math, the College will provide special advising concerning specific course selection.

The College Placement Test is computerized. Students may retake the test once during a six-month period, for a fee. Students with documented disabilities may make special arrangements to take the test by contacting the Academic Skills Center.

Admissions

4. Schedule and Attend New Student Orientation

Applicants seeking to earn a certificate, diploma, or associate degree are required to complete a new student orientation. During orientation, new students learn valuable information about Craven and the resources available to assist them in reaching their goals. Students will acquire tips to help them be successful in college and information to assist them with the advising and registration process. To register for an orientation session please visit <http://cravencc.edu/first-year-experience/> then select orientation. Students will receive a certificate to take to their academic advising session as proof of completion.

5. Meet with an Advisor

Students must meet with an advisor to discuss their personal and professional goals and to develop an academic plan. Admissions personnel will direct students to the appropriate advisor. Walk-in service and appointments are available. Advising appointments may be scheduled online at <http://www.cravencc.edu/admissions/advising.cfm>.

Special Credit/Visiting Students wishing to be reclassified as Regular Students must complete admissions requirements as indicated for Regular Student Status.

International Student Applicant: 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 or to Craven's International Student Information at <http://cravencc.edu/admissions/international-students-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

■ Admissions Classifications

Regular Student Status: Students who have completed all admissions requirements and are enrolled in a Program of Study.

Provisional Student Status: Students who have not completed all admissions requirements may be admitted and enrolled for one semester. Provisional students will be allowed to register for subsequent semesters only upon completion of admissions requirements.

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

- **Special Credit Students** are students often enrolled for the purpose of gaining special skills or for personal enrichment.
- **Visiting Students** are students enrolled at other institutions. They will be enrolled for the purpose of transferring courses to their current college/university.

■ Residency Status

Students are classified as residents for tuition purposes if they have established the legal residence requirements found at <http://www.northcarolina.edu/legal/residence/index.htm>.

Resident status is initially determined by information provided on the student's admission application. Further documentation may be required to change a student's resident status. All students are charged the appropriate rate of tuition and fees depending on the number of credits taken and the student's state residence.

Active duty military stationed in North Carolina, along with their spouses and dependents, may apply for the in-state tuition rate benefit. The application for this benefit is available at our Cherry Point, Havelock and New Bern offices or online at <http://www.cravencc.edu/students/student-forms/> located under student forms.

■ 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 academic program.

Application Deadlines

Esthetics Technology

Fall Admission 2014 accepted through
July 31, 2014

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

Fall Admission 2015 Oct. 20 – Dec. 31, 2014

LPN to ADN Transition

Fall Admission 2015 Aug. 18 – Oct. 10, 2014

Practical Nursing

Fall Admission 2015 Oct. 20 – Dec. 31, 2014

Health Information Technology

Fall Admission 2015 Mar. 9 – May 22, 2015

Medical Assisting

Fall Admission 2015 Mar. 9 – May 22, 2015

Pharmacy Technology

Fall Admission 2015 Mar. 30 – June 5, 2015

Physical Therapist Assistant

Spring Admission 2016 May 4 – July 24, 2015

■ 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 initiative gives motivated high school students a head start on their college and careers, tuition free. This program provides structured opportunities for qualified public, private, and home-schooled juniors and seniors to pursue one of three pathways that lead to college certificates, diplomas, or degrees and provide entry-level job skills.

Academic credits earned through the Career and College Promise Pathways enable students who continue into post-secondary education after high school to complete college degrees in less time than high school students without college credit.

Career-Technical Education Pathway

High school juniors and seniors may enroll in a Career-Technical Education Pathway Certificate Program at Craven Community College that aligns with their high school "Career Cluster."

"Career Cluster" refer to fields of employment or industries that lead to careers within related career areas. Many "Career Clusters" have been identified at the state level; however, not all clusters may be available at local high schools. High school students should consult with their high school counselors to learn about specific "Career Clusters" available at their local high schools.

Admissions

Enrollment Requirements

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

- Be high school juniors or seniors;
- Have a weighted GPA of 3.0 or higher on high school courses or have the recommendation of the high school principal or his/her designee; and
- Meet the prerequisites for the Career Pathway (as defined by the college and the Career and College Promise operating procedures).

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.

The Career-Technical Education Pathways include:

- Automotive: Electrical (C60160B)
- Automotive: Undercar (C60160C)
- Business Admin.: Customer Service (C25120F)
- Business Admin.: Transfer Prep (C25120H)
- Computer-Integrated Machining Technology (C50210A)
- CTI: Cyber Security (C25500M)
- CTI: Computer Technician (C25500X)
- CTI: A+ Prep (C25500U)
- Criminal Justice: College Transfer Prep/BLET (C55180E)
- Early Childhood Education: Child Development (C55220A)
- Electronic Engineering Technology (C40200A)
- Entrepreneurship (C25490)
- Medical Office Administration: Medical Office Receptionist (C25310E)
- Welding (C50420A)

College Transfer Pathway

High school juniors and seniors planning to attend a community college transfer program or a four-year college 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 semester hours of college transfer courses, including courses in English and math. Generally, 30 semester hours is equal to 8-10 college courses, depending on the credit hours required for specific courses.

Enrollment Requirements

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

- High school juniors or seniors;
- Have a weighted GPA of 3.0 or higher on high school courses; and
- Demonstrate college readiness on an assessment or placement test (PLAN, PSAT, SAT, ACT, Asset, COMPASS, 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 universal general education transfer component (UGET) while enrolled in high school with the approval of the high school principal and the college's chief student development administrator.

The College Transfer Pathway include:

- Associate in Art Pathway
- Associate in Science Pathway

For more information on the North Carolina Career and College Promise Pathways please visit our website at <http://www.cravencc.edu/education-alpartnerships/career-college-promise.cfm>.

■ Cooperative Innovative High School (Early College) Pathway

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

Craven Early College (CEC) and Early College EAST (Eastern Applied Sciences and Technology) are headquartered on the Craven Community College New Bern and Havelock campuses 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. Job shadowing experiences occur during

years one and two and students will have internship and apprenticeship opportunities as upperclassmen. 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's degree (at no cost to the student) in one of the following pathways: Associate in Art, or Associate in Science.

- Both Craven Early College and Early College EAST are part of the national initiative of "new schools" championed by the Bill & Melinda Gates Foundation.
- 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 school system transportation.
- These innovative programs follow the college's calendar rather than the Craven County School's calendar.

Tuition, Financial Aid and Scholarships

Tuition, additional or special college fees that apply to in-state and out-of-state students are subject to change. A student payment plan is available for students who should be familiar with refund policies. The College provides financial aid and scholarship opportunities for students who qualify.

■ Tuition 2014-2015*

In-State (per semester hour)	71.50
Maximum In-State Tuition	\$1,144.00
Out-of-State (per semester hour)	\$263.50
Maximum Out-of-State Tuition	\$4,216.00

■ College Fees*

Computer Use and Technology, per semester	\$16.00
Student Activity – Fall and Spring only.....	\$32.00
Transcript Fee (each)	\$5.00
Security/Parking per semester.....	\$10.00
(each additional parking sticker)	\$2.00
Returned Check, per check.....	\$20.00
Summer supply fee per course	\$10.00
GED, per test.....	\$30.00
Parking Fine.....	\$5.00
Graduation – Cap, Gown and Tassel	\$30.00
Graduation Fee	\$15.00
Graduation – Associate Degree Hood	\$30.00
Optional Student Accident Insurance, per semester	\$2.00
Placement Fee for Retesting	\$3.00
Distance Learning Fee (Hybrid or Online)...	\$15.00
Library Fines:	
per day for overdue books.....	\$.10
per day for overdue videos.....	\$1.00
per page for personal printing.....	\$.10
per page for photocopies.....	\$.10
replacement library card	1.00

Test proctoring (non-students)	\$20.00
Nursing Admissions Testing.....	\$35.00
Professional Liability Insurance (Nursing and Medical Assisting) – annual fee.....	\$16.00
Nursing Badge Replacement.....	\$50.00
Nursing Lab fee.....	varies by cohort
Nursing Math Test.....	\$4.00

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 \$25 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.

■ Refund Policies

1. A refund shall not be made except under the following circumstances:
 - a. A 100 percent 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 percent refund if the class in which the student is officially registered is cancelled due to insufficient enrollment.
 - b. A 75 percent refund shall be made if the student officially withdraws from the class prior to or on the official 10 percent point of the term.
 - c. For classes beginning at times other than the first week (seven calendar days) of the semester, a 100 percent refund shall be made if the student officially withdraws from the class prior to the first class meeting. A 75 percent refund shall be made if the student officially withdraws from the class prior to or on the 10 percent point of the class.

Tuition, Financial Aid and Scholarships

- d. A 100 percent 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 percent 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.

Refund policies are determined by NCCCS, and dates are published in the course schedules each semester and on the college website: www.cravencc.edu/admissions/tuition.cfm.

For additional information about refunds, contact the Student Accounts Office staff at 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), Federal Direct Loans and State Grants may be responsible for repaying a portion of their aid if they drop or stop attending classes during the refund period.

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 or academic transcripts. 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, family income and assets. Due to the length of processing time, applicants are encouraged a) to apply to the College and b) 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. The priority deadline for processing financial aid paperwork for fall semester is June 1.

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).

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
- have a valid Social Security Number (unless from the Republic of the Marshall Islands, the Federated States of Micronesia or the Republic of Palau)

Tuition, Financial Aid and Scholarships

- demonstrate financial need
- be a high school graduate or have a General Education Development (GED) certificate or Adult High School Diploma (ADHS)
- not have a drug conviction for an offence that occurred while receiving federal student aid (such as grants, loans, or work-study)
- be registered with Selective Service if you are a male and 18 to 25 years of age (go to www.sss.gov for more information)

For federal financial aid programs, an applicant must meet one of the following conditions in order to be considered an independent for the 2014-2015 academic year:

- be born before January 1, 1991
- be a veteran of the U.S. Armed Forces
- be married
- 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 or 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
- in foster care since turning age 13
- currently or in the past, student was an emancipated minor
- currently or was in a legal guardianship
- currently 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 by visiting www.fafsa.ed.gov. 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, family contribution and aid availability. If selected for verification, the student and family must provide documentation of all 2013 taxable income (IRS tax transcript; with W-2's) and non-taxable income (disability, child support, etc.). All non-taxable income information provided should be representative of the last calendar year (2013 for the 2014-2015 aid year).

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.

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.

■ Federal Financial Aid Programs

Federal Pell Grant

The Federal Pell Grant provides grants ranging from \$400 to \$5730 per year to all eligible applicants.* Students must file a Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov after January 1. The application should list Craven Community College (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, 2015, 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 only pay for 30 credits attempted 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 (SEOG)

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

Federal College Work-Study (FCWS)

Eligible students may work part-time while in college to help defray their educational cost. Salary starts at \$7.25 per hour (subject to change) for 10 to 20 hours of work per week. FAFSA is required and funding is limited.

Veterans Benefits

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 in assisting eligible veterans/dependents with their education benefits. Most curriculum courses are approved for veteran training, as well as the General Education Development (GED) Certificate and the Adult High School Diploma Programs (AHSD). The VA Coordinator will assist veterans and their dependents through the process of acquiring benefits.

Vocational Rehabilitation

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, P.O. Box 26053, 805 Rugles Drive, Raleigh, NC 27611-6053 or call (919) 733-3364.

Tuition, Financial Aid and Scholarships

■ 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, subsidized loan, unsubsidized loan, SEOG and college 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 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 CCC 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 97 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 letter explaining situation and education goals.
- Submit documentation (doctor's note, police report, social services report, obituary, etc.) with their request.

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

■ State Aid

North Carolina Community College Grant (NCCCG)

The North Carolina Community College Grant is a need-based grant established to help meet the educational costs of NC residents attending community colleges. The student must be a NC resident, enrolled at least half-time (6 credit hours), enrolled in an eligible curriculum program, meeting the Satisfactory Academic Progress requirements and meeting the Federal Pell eligibility requirements (except for the EFC requirement) established by the federal government. This grant does not have to be repaid. To qualify, a student must complete the FAFSA by the published deadline and list a NC Community College as one of the top three choices of institutions. Annual awards will be made based on the student's established need and enrollment status.

North Carolina Education Lottery Scholarship (ELS)

The North Carolina Education Lottery Scholarship was created by the 2005 General Assembly to provide financial assistance to NC students with need. It is available for students in UNC campuses, community college campuses, and non-profit college campuses where students currently receive state aid. To be eligible for this grant, students must be undergraduate N.C. residents enrolled at least half-time. Students must meet all Pell Grant eligibility rules and have an expected family contribution less than or equal to \$5,000, (subject to change).

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 year at a time. 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. 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.

■ **Scholarship Opportunities**

Craven Community College offers a variety of scholarships. Most are based on financial need and academic achievement. Scholarship applications should be completed in early spring for the next academic year. Criteria and award amounts are determined by the sponsors and are subject to change. Contact the Financial Aid Office for additional information and requirements.

Craven Community College Scholarships

The College Foundation offers a variety of scholarships, grants-in-aid and financial awards established for entering, returning and graduating students.

The College's scholarships are awarded annually by the Scholarship and Financial Assistance Committee (except where noted). 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 (Entering Freshmen Scholarships, President's Scholarships, Returning Student Scholarships) are available after Jan. 15 from the college website. Applicants are encouraged to apply for scholarships online at www.CravenCC.edu.

A student needs to file only one application for a given category of scholarship (one application will submit the student's name for consideration for all of the entering scholarships). Students awarded scholarships based upon recommendations of faculty, departments, and/or by the Committee on Scholarship and Financial Assistance, will be notified in June.

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 faculty advisors and students designed to give students clarity on their academic direction and educational goals.

First-Year Advising Requirement

All degree seeking first-year students should 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. Not sure who your advisor is? Go to WebAdvisor – Academic Profile – My Profile.
- Preview your Program Evaluation in WebAdvisor.
- 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.

- Your advisor will discuss your goals and plans for the next semester. Then, you can register using WebAdvisor once registration is opened.

College Student Success Course Requirement (ACA 111, ACA 118 or ACA 122)

All new full time students working towards their diploma or associate's degree must enroll in ACA 111 (College Student Success), ACA 118 (College Study Skills) 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, ACA 118 or ACA 122 unless they have:

- Successfully completed a course equivalent to ACA 111, ACA 118 or ACA 122 at another regionally-accredited college or university. Course must be documented on a transcript.
- Previously earned an associate's 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 Fine Arts, or Associate in Science Degree should take ACA 122, not ACA 111 or 118.

NOTE: Students admitted directly into the following programs do not take an ACA course, but instead take an orientation course for their program.

- Health Information Technology: HIT 110
- Medical Assisting: MED 110
- Pharmacy Technology: PHM 110
- Physical Therapist Assistant: PTA 110

NOTE: Students enrolled in degree programs other than AA and AS degrees are required to take only one ACA course. If students change programs and the new program requires a different ACA course, their previous ACA course or EGR 150 may possibly be substituted for the new requirement. HIT 110, MED 110, PHM 110 and PTA 110 cannot be substituted for a required ACA course.

■ 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 eight-week terms are also provided for students. Summer sessions are a minimum of eight weeks.

Students meeting certain criteria may register online through WebAdvisor, an online Web-based portal. Through Web-Advisor, students may review their scheduling options, develop preliminary schedules, and register. Registration information includes class beginning and ending dates, meeting days, class times, and course prerequisites and corequisites. The Web-Advisor Academic Link 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. Once enrolled in courses, students may drop or add courses according to the Academic Calendar. Students will not be able to register for a class once that class has started.

To register:

1. Complete the Admission Process
2. Complete the Financial Aid procedure, if seeking financial assistance
3. See an academic advisor for assistance in selecting courses based on your Program of Study
4. Develop a course schedule and register for classes
5. Pay tuition and fees or enroll in the Payment Plan online
6. Obtain a parking permit

Parking Permits

All students are required to obtain, and properly display, a parking permit. Parking permits and Campus Parking Rules and Regulations are available from Student Services and the Havelock office. Short-term parking for visitors to the New Bern campus is available adjacent to the Brock Administration Building and to the Havelock campus adjacent to the Redd Building. Eligibility for a handicapped parking space generally requires display of the Handicapped Placard from the North Carolina Division of Motor Vehicles. Applications for the Handicapped Placard are available from the office of Campus Security.

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 you have earned at Craven. See Academic Calendar for specific dates.

Enrolled full-time, degree-seeking students 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.

Military Learner Online (MLO)

Craven Community College is committed to the military. The Military Learner Online (MLO) is completed entirely online in eight-week mini-esters. All active duty and active duty dependents, who enroll in these sections, are guaranteed seats. If a student has met all prerequisites, he or she can complete his or her Associate in Arts degree in two years. Speak to an advisor at the Military Affairs Center or at the EDTR on MCAS Cherry Point.

Advising and Registration

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 every 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 take enroll-in more than 19 hours of course credit. The approval for an extra course overload must be signed by the advisor and properly documented.

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

A pre requisite course is one that must be completed prior to registration for another higher-level course. Course prerequisites are listed in this catalog, directly under the course description. Check the catalog carefully prior to attempting to register for a class. All prerequisites must be completed prior to starting a higher-level course, although prerequisites can be in progress when a student registers. Audited courses (AU) do not satisfy course prerequisite guidelines.

Unsuccessful Prerequisite Completion

After final course grades are posted at the end of a semester, a student will be dropped from any pre-registered course for which the student failed the prerequisite course. Notice of the dropped class will be sent to the student by college email, and an attempt will be made to telephone the student. It is the responsibility of the student to register for a replacement class, either through WebAdvisor or with the assistance of a Professional Academic Advisor or Faculty Advisor. Failure to do so may impact financial aid.

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 as (described above).

Corequisites

A corequisite is a course that must be completed 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.

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. Obtain a Permit to Audit Courses form in Student Services.
2. Complete the Permit to Audit Courses form and have Financial Aid sign the audit form (financial aid can be affected by this change).
3. Submit the completed form to Student Services.

NOTE: Financial aid and Veterans' 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 veteran's benefits for repeating a course for which they have already passed or 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 must pay the actual cost of the course, based on the current rate for self-supporting courses (this cost is at a higher tuition rate).

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 e-mail account.

■ Withdrawals

Student Course Withdrawal

After registration students may withdraw from a course through the last day listed 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, (2) have an advisor sign the form, and (3) submit the form to Student Services.

Instructor/Course Withdrawal

Faculty may elect to 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 found in Student Services or online. The student should discuss withdrawing with an advisor. Students' financial aid and future academic records may be affected by a withdrawal and should be discussed with a Financial Aid professional.

Withdrawal from the College after the 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.

Advising and Registration

■ Graduation

Eligibility is based on the following criteria:

- The minimum number of course credit hours prescribed in the program of study has been completed. A student receiving an Associate Degree must complete a minimum of 25 percent of the respective program credit hours at Craven Community College.
- All courses have been completed with a cumulative quality point average of at least 2.0.
- Students who intend to transfer credits from another school to meet Craven graduation requirements must complete these requirements within three years of the last term they attended Craven.
- All financial obligations to the College have been met.

Graduation Application

It is the responsibility of the student to make application for graduation. Students should see an advisor to confirm that requirements have been met. Graduation applications are filed with the Registrar, (see the Academic Calendar for deadline). The student may purchase his/her cap and gown in the campus bookstore and pay their graduation fee in the Student Accounts Office (all graduation fees are nonrefundable).

■ 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's 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 website:

- <http://www.northcarolina.edu/>,
- <http://www.northcarolina.edu/aa/articulation/index.htm>, and
- <http://www.northcarolina.edu/content.php/assessment/reports/studentinfo/caa.htm>.

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), 25 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	Belmont-Abbey
Bennett	Brevard
Campbell	Catawba
Chowan	Gardner-Webb
J.C. Smith	Lees-McRae College
Livingstone	Louisburg
Mars Hill	Meredith College
Montreat	Mount Olive
NC Wesleyan	Peace
Pfeiffer	Queens
St. Andrews	St. Augustine
Salem College	Shaw
Warren Wilson	Wingate

The college enters into a variety of bi-lateral agreements with public and private institutions across the country.

East Carolina University

State Employee Credit Union (SECU) Partnership East at Craven Community College

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

Through the ECU SECU Partnership East 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 from ECU. Degrees offered include:

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

Special Education and Middle Grades education are offered entirely online and field placements are made within the area. The Elementary Education degree is delivered mostly online with a few face-to-face evening classes on the New Bern campus. Although students will continue to work with their CCC advisors until completion of their transfer degrees, students may contact the SECU Partnership East 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's Degree with CCC 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)
- Hospitality Management – 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

Advising and Registration

- 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 & 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 CCC 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), CCC 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 CCC 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 CCC.

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 CCC engineering students will continue to work with their CCC advisors until completion of their transfer degree, they may contact the NCSU Engineering Program Coordinator for more information: (252) 444-3357 or wbfortne@ncsu.edu [The NC State College of Engineering office, Room 108 Redd Building (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 ECU. Students can finish their degree in 2-3 years (pending admission by their respective universities' College of Engineering).

Southern Illinois University, Carbondale

Craven Community College (CCC) students can earn a Bachelor of Science Degree in Aviation Management at Southern Illinois University (SIU). Craven Community College and SIU have an articulation/partnership agreement. After obtaining their Aviation Systems Technology Degree at CCC, 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 or visit their website at www.siu.edu for more information.

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.

Service Member's Opportunity College Program (SOCMAR/SOCNAV)

Craven Community College is a member of SOCMAR/SOCNAV, the degree program for the Marine Corps and Navy, consisting of accredited colleges which offer degree programs on or accessible to Marine Corps and Navy installations worldwide. These civilian colleges accept credits from network colleges, enabling military personnel and their dependents to continue working toward a degree even when transferred. The agreement with the home college provides a plan for program completion and also guarantees that graduation programs will not be changed as long as minimum residency and academic requirements (25% of coursework and 2.0 Grade Point Average) are met. Service members are eligible for a SOC contract after completing six semester hours of college-level coursework.

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. The Career/Transfer Center office is located in room 119 of the Student Center at the New Bern Campus (252) 514-0502.

Other College University Connections

In addition to the courses provided in the Comprehensive Articulation Agreement (CAA), transfer opportunities are continuously being developed with other N.C. 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) 638-7200/Student Center], the Cherry Point Branch Office [(252) 444-6000, the Havelock Campus [(252) 444- 6005] and the CCC website at www.CravenCC.edu.

Student Services and Learning Support

■ Academic Skills Center

An Academic Skills Center (ASC) is located on both campuses. The Jane Moore Stubbs ASC on the New Bern Campus is located in Barker Hall. The Havelock ASC is located in the Redd Building. Both campuses have a Computer Lab, Writing Lab, and Math Lab. The Centers offer workshops on special topics and assists students with special needs. Students are strongly encouraged to take advantage of the rich resources available to assist in their learning.

The Computer Lab offers a wide range of tutorial software, word processing programs, and research materials. Knowledgeable student assistants are available.

The Math Lab and Writing Lab are staffed by instructors and advanced students who can offer assistance with any level of math or writing.

Make-up Exams are administered per instructor guidelines.

A Student Help Desk is available for Moodle and technical support in the ASC during college operating hours when classes are in session.

New Bern ASC Hours (Fall and Spring)
Monday – Thursday 8 a.m. to 7 p.m.
Friday 8 a.m. to 5 p.m.

Havelock ASC Hours
Monday – Thursday 8 a.m. to 7 p.m.
Friday 8 a.m. to 5 p.m.

Summer hours vary.

Because every individual service, program, and activity are different, accommodation decisions are made on a case-by-case 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.

■ Library

Both the New Bern Campus and the Havelock Campus offer library resources to meet the curricular and instructional needs of Craven Community College students, faculty, and staff, and the informational and leisure needs of the community as a whole. The library provides a number of resources and services including electronic resources, a teacher resource center, computer lab, wireless internet access, and laptops that can be checked out for use in the library.

Users may also arrange to get materials from other institutions through our interlibrary loan system. Additional resources are available online through the library's website: <http://cravencclibguides.com/library>.

Affiliation with the college is not required for library usage. Anyone who lives in Craven County and is over the age of 18 may apply for a library card and borrow items.

■ Disability Services

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

■ Student 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 the college website. All student organizations must be approved by the administration and the Campus Life Assistant Activities Director. Each organization must meet and adhere to the criteria and procedures established by the administration and SGA. The following are active clubs:

Student Services and Learning Support

- **Alumni Association** – The Alumni Association gives its members an opportunity: (1) to advance the growth and development of the College; (2) to enhance their personal, educational, and professional development as well as that of other alumni; and (3) to establish, promote, and maintain mutual benefits through relationships with the college community and its alumni.
- **Automotive Technology Club** – The purpose of the Automotive Technology Club is: (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.
- **CCC Ambassadors** -The Student Ambassadors are selected to represent the college at various community and student events. Students selected for the program must maintain a minimum GPA of 3.5, have recommendations from the faculty and staff and be enrolled full-time.
- **Criminal Justice Society** - The purpose of the Criminal Justice Society is (1) to promote professionalism; (2) to provide career supportive activities; (3) to open a network connection between students and law enforcement agencies; and (4) to promote a sense of unity and academic support.
- **ENCORE!** - ENCORE! is Craven Community College's singing ambassadors who perform at the college and throughout the community.
- **Gaming Club** - The purpose of the Gaming Club is (1) to promote interest in Magic the Gathering and other social games that develop math, reading, problem solving and critical thinking; (2) to provide opportunities to play at organized events with club members and the community; and (3) to provide social interactions; including opportunities to teach games to interested parties.
- **H.I.T Club** - The purpose of the Health Information Technology Club is (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.
- **Machinist Club** – The purpose of the Machinist Club is (1) to promote professional competency; (2) to provide an opportunity for the members to serve together productively; and (3) to promote better understanding and cooperation among faculty members and students.
- **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 association in which the club plays. Any eligible student is encouraged to try out for the team at the beginning of each semester.
- **Phi Theta Kappa** - Phi Theta Kappa 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 toward an associate's 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.
- **Science Club** - The purpose of the Science Club is (1) to promote an interest in the sciences; (2) to experience the sciences above and beyond the classroom setting; (3) to provide career information; and (4) to enhance the involvement of science students within Craven Community College.

Student Services and Learning Support

- **SkillsUSA Organization** - The purpose of the SkillsUSA Organization is (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** – The Student Government Association (SGA) shall be the representative organization of the Student Body of Craven Community College (the “College”), and in that capacity shall assure positive communication and promote activities that are in keeping with the best interests of the college and its student body. All curriculum students who pay student activity fees, both part-time and full-time, shall be members of the Student Government Association.
- **Student Nursing Association** - The purpose 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.
- **Welding Club** - The purpose of the Welding Club is (1) to promote professional competency by providing opportunities for club members to serve together productively on practical and artistic projects; and (2) to create a joint effort between faculty and students that allow members to refine their skills while increasing their understanding of welding principles.

Each year new clubs and organizations are formed by students with different interests. Contact the Campus Life and Student Engagement Coordinator in the Student Center.

■ English as a Second Language

English as a Second Language is designed to teach immigrants and refugees basic survival skills for our culture and society. Through these classes, they learn to speak, read, and write the English language. They may also study for their citizenship. Advanced studies include preparation for the GED. Distance Education (Learn at Home) coursework is also available through videos and Internet access. Contact (252) 638-7265 for more information.

■ Career and Transfer Services

The Craven Community College Career/Transfer Center is a college-wide resource that provides comprehensive support to students in areas of career development and transfer planning. Centralized locations on the New Bern and Havelock campuses are designed to foster student development by creating access to career exploration opportunities, job postings, self-assessments, transfer advising, résumé and cover letter critique services, mock interviews and a variety of resources and workshops.

The Career and Transfer Center is located in room 119 of the Student Center at the New Bern Campus. Services are also available at the Havelock-Cherry Point Campus. For additional information see <http://www.cravencc.edu/careerservices> or email careerservices@cravencc.edu.

■ E3: Engage, Enrich, Empower First-Year Experience Programs

Our Quality Enhancement Plan (QEP) is called E3: Engage, Enrich, Empower, and it's all about improving the first-year experience. The QEP is an important part of our re-accreditation process, but it is also a significant opportunity for Craven Community College to examine our processes and help our students achieve success. Craven has created a plan to improve the first-year experience based on a lot of research and evaluation. The types of changes encompassed in the QEP—new student orientation, enhanced advising and supporting first-year student success—will benefit all students.

The E3: First-Year Experience Program is designed to “Engage” incoming students inside and outside of the classroom, “Enrich” students’ lives with various opportunities to grow and develop personally and professionally, and “Empower” them to initiate, lead and pursue their passion. 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 FYE Programs can provide to ensure they are successful as college students. The E3: First-Year Experience Program offers:

- New Student Orientation Sessions
- ACA College Student Success Courses (ACA 111, 118, and 122)
- First-Year Advising
- Student Success Workshops
- Common Reading Program and Essay Contest
- First-Year Events and Excursions to promote student engagement

For additional information see: <http://www.cravencc.edu/fye>.

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.
- 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 the Student Center on the New Bern Campus. Credit wellness and activity classes are offered in the Fitness Center along with “open lab” hours designated throughout the week. Free weights, yoga DVDs, and various exercise equipment are available for use.

Student Services and Learning Support

■ TRiO Student Support Services

Student Support Services is one of the nine federally-funded TRiO grant program, distributed to institutions through a competitive grant competition, sponsored by the Department of Education.

Funds are awarded to institutions of higher education to provide opportunities for academic development, assist students with basic college requirements and to motivate students toward the successful completion of their post-secondary education.

Craven Community College's program is funded to assist 180 qualified and deserving program eligible students. The goal of TRiO Student Support Services is to help students successfully transition into college and progress to graduation and/or transfer. Assistance to program participants is provided through a number of free one-on-one and group services. Student Support Services offers:

- Academic tutoring,
- Advice and assistance in post-secondary course selection,
- Provide information on the full range of financial aid programs, benefits and resources for locating public and private scholarships,
- Provide assistance in completing financial aid applications,
- Education or counseling services designed to improve financial and economic literacy,
- Assist students enrolled in two-year institutions and applying for admission to, and obtaining financial assistance for enrollment in four-year programs.

Eligibility for TRiO Student Support Services is determined by federal regulations. To qualify, a student must be a low income U.S. Citizen or permanent resident and meet one of the following criteria:

- Be a first generation college student (neither parent has a bachelor's degree)
- Have a documented disability

For additional information contact 638-1236 (New Bern) or 444-1043 (Havelock).

■ Military Affairs Center (Havelock campus)

The Military Affairs Center (MAC) was established specifically to address the unique academic, financial and social needs of active military members and veterans transitioning from warrior to student. Craven Community College is committed to providing military-affiliated students with quality assistance and guidance throughout their academic career. The MAC provides one-on-one assistance to ensure that the college's current and former military students have a positive college experience. Our faculty and staff want you to feel supported every step of the way. Balancing college life with career and personal responsibilities can be very challenging. The MAC staff members are happy to assist you in handling these challenges and getting the most out of your college education.

■ Food Service

Food service is available in the Student Center on the New Bern campus through Craven Coffee House and Cafe. Vending machines are located in the Student Center hallway and the Redd Building lounge. Coffee, soda and snacks can be purchased in the Bookstore.

■ Bookstore

Follett Higher Education Group operates bookstores at both the New Bern campus and the Havelock campus where students may purchase textbooks, supplies and other items. The Havelock campus has limited service, generally prior to and the first few days of each semester.

The cost of textbooks and other materials varies. Students may return books for a refund within seven business days of class. Books purchased after the first day of class 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. Used or damaged books will not be accepted for return.

Textbooks for highly enrolled courses are on reserve in the Library for limited use.

■ 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 complete a Request for Change of Program form obtained from Student Services or an 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.

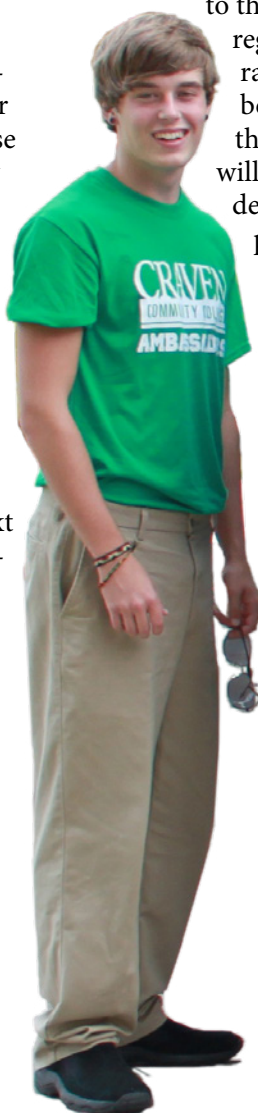
A complete listing of the programs of study for all college transfer degrees, applied degrees and the general education degree can be found in this catalog.

■ 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 pre-requisite should have equivalent subject content to the required course. Substitutions must be approved before the student registers for the course for which the pre-requisite substitution is being requested. Pre-requisite substitutions are rare.



Academic Information

■ Examination and Transfer Credit

Credit By Examination

Students can receive credit for college courses under the credit by examination policy. The College recognizes and awards credit for the following testing programs:

1. APP – Advanced Placement Program
2. CLEP – College Level Examination Program
3. DSST – DANTES Subject Standardized Tests
4. IBCC - International Baccalaureate College Credit

The College awards credit for APP, CLEP and DSST examinations based on the credit recommendations of the American Council on Education for comparable courses it offers. A maximum of 20 semester hours of credit is allowed under the Credit by Examination Policy. Credit will apply towards graduation requirements in the student's program; however, quality points are not awarded. A student desiring college credit through these programs must have the applicable testing agency forward the examination results to the College. Credit will be awarded based upon established criteria.

Credit by Departmental Exams

A student may receive credit by taking a departmental exam for a course in which he/she evidences previous work or educational experience. Students must first register and pay tuition for a given class in order to take a departmental exam and earn credit for the course. If the student does not successfully pass the examination, he/she may elect to remain in the course for credit or may elect to withdraw from the course. Courses completed by departmental examination are not used in computing a student's full-time or part-time enrollment status. Quality points are not assigned for credit by exam. However, course credit and the credit hours are counted toward graduation requirements. Most colleges and universities do not accept Credit by Exam (CE) grades in transfer.

Procedures are as follows:

- The student submits the Credit by Exam form to the appropriate Academic Dean.
- If approved for a Credit by Exam opportunity, the Academic Dean makes the arrangements with the student for registration and for administering the departmental exam.
- Following successful completion of the exam, the Academic Dean will notify the Registrar by submitting the Credit by Exam form.
- Credit will be awarded for a grade of "C" or higher. Credit hours will be posted on the student's permanent record using the grade symbol "CE."

Students should contact Academic Deans as early as possible to schedule any exam to be used as a pre-requisite verification for a higher level transfer course.

Students who enter Craven Community College with only high school credit in foreign language may elect to begin their foreign language instruction in the first level course for the language of their interest such as FRE 111, GER 111 or SPA 111, by presenting CLEP exam scores showing proficiency for level one courses. The LAUT department can provide information on CLEP testing.

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 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.

■ 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.

■ 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	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.

Academic Information

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	Failing	Failure to successfully complete all course requirements as specified by the instructor.	0
I	Incomplete Grade	Temporary grade assigned at the discretion of the instructor subject to approval of the Academic Dean for extenuating circumstances.*	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	The instructor withdrew the student who never attended from course without academic penalty.	0

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." (example: Spring semester incomplete grades must be removed no later than the first eight weeks of the next Fall semester. Associate Degree Nursing and Practical Nursing 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 Executive Vice President.*

Computation of Grade Point Average (GPA)

To calculate your grade point average 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 the grade point average (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 Grade Point Average (CumGPA).

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 grade point average.

Example:

Class	Grade	Quality Points		Semester Hours Credit		Total Quality Points
ACA 111	A	4	x	1	=	4
EDU 111	B	3	x	2	=	6
PSY 150	D	1	x	3	=	3
EDU 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 WebAdvisor, 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.



Academic Information

■ 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 semester 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 Appeal" which includes the dean's signature to the Chief Academic Officer (CAO). The CAO may at his/her 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 shortly 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 3.5 grade point average for the semester without a grade of "Incomplete". Students achieving an overall 3.5 or better grade point average in programs will be recognized at graduation.

■ 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.

■ Academic Forgiveness

A student who has not been enrolled in curriculum courses in the College for 36 consecutive months since his/her 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 the College 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 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 in 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 Skills Center, or assistance of a tutor. During the next enrolled semester, the student should show significant progress toward 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.

■ 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. The notice indicates that Academic Suspension will result from the failure to attain Satisfactory Academic Progress (SAP) as defined by an overall/cumulative GPA of 2.0 or a semester GPA of 2.5 or better.

■ Academic Suspension

A student who fails to attain the requirements for Satisfactory Academic Progress as defined by an overall/cumulative GPA of 2.0 or a semester average of 2.5 or better while on Academic Probation will receive notice of Academic Suspension. The student will be suspended from attending classes for a period of one semester. A student will not be allowed to register for credit classes for the subsequent semester.

Appeal of Academic Suspension

A student may appeal his or her suspension through a formal appeals process. Following the appeals process, a student may be reinstated on a probation status.

Reinstatement

A student re-admitted after Academic Suspension is placed on Academic Probation and must meet the requirements defined under Academic Probation and work toward Satisfactory Academic Progress.

Academic Information

■ 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.
- Craven Community College is open to the public generally from 7:30 a.m. to 7 p.m. Monday through Thursday, and from 7:30 a.m. to 5 p.m. on Friday. Hours are subject to change and will be posted.
- When inclement weather or other conditions warrant closing the College, students are notified through the College's website. Local TV and radio stations are notified, and the information is posted on the College's Facebook page and Twitter.

■ Student Records and Confidentiality

The College qualifies as an educational institution within the meaning of the Family Educational Rights and Privacy Act (FERPA), and therefore all education records are private to the student and the College with the exceptions set forth in this Policy and as provided by law. Students shall be granted right of access to their records and such records shall be open to revision only as indicated in this Policy and upon the terms and conditions established by the College. See this policy in its entirety at <http://www.cravencc.edu/about/policies>.

Consent Form for Release of Non-directory Information

Students should notify the Registrar if they do not want directory information to be released. Directory information includes student name, address, telephone number, date, and place of birth, etc.

Transcript Requests

Transcripts will not be released for a student who has an outstanding financial obligation to the College. All student records are held in confidence by the College. Transcripts will be made available only upon request of the student. A statement authorizing release must be signed by the student before a transcript will be sent to other colleges, employers,

or other agencies. Authorization for release of transcript forms are available in Student Services and online. There is a fee for each transcript.

■ Students 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 and to be accountable for information contained in all college publications (catalog, student handbooks, information provided through student e-mail, 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 our website at www.cravencc.edu/about/policies.cfm.

■ Associate Degrees

Craven Community College is authorized by the Commission on Colleges of the Southern Association for Colleges and Schools (SACS) to award five degrees – the Associate in Arts (AA), the Associate in Science (AS), the Associate in Fine Arts (AFA), the Associate in General Education (AGE), and the Associate in Applied Science (AAS).

The Associate in Arts, the Associate in Science, and the Associate in Fine Arts 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 work force.

■ 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.

■ General Degree Requirements

The following academic standards apply to all degrees:

- A minimum of 25% of the respective program credit hours must be completed at Craven Community College;
- All courses must be completed with a cumulative grade point average (Cum GPA) of at least 2.0;
- Students applying for graduation from Craven Community College must meet all graduation requirements within three years from the last term enrolled as a Craven Community College student;
- All financial obligations to the College must be met.

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

■ General Education Learning Outcomes

Assessment of student 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 (SACS), to document the process, results, and improvement plans related to the assessment of student learning outcomes. In the Associate in Arts, Associate in Science, Associate in Fine Arts, 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.

Degrees and Programs

■ ACADEMIC PROGRAMS

Program	Award	Program Code	Page
*Accounting.....	AAS	A25100	44
*Accounting: Payroll Accounting	Diploma	D25100	46
*Accounting: Payroll Accounting	Certificate	C25100	48
*Accounting: Small Business Accounting.....	Certificate	C25100A	47
*Associate in Arts.....	AA	A10100	48
Associate in Fine Arts: Art.....	AFA	A10200	50
Associate in Fine Arts: Music.....	AFA	A10200	52
*Associate in General Education	AGE.....	A10300	54
Associate in Science	AS	A10400	56
Automotive Systems Technology	AAS	A60160	58
Automotive Systems Technology – Drivetrain	Certificate	C60160A	60
Automotive Systems Technology – Electrical/Electronic.....	Certificate	C60160B.....	60
Automotive Systems Technology – Undercar	Certificate	C60160C	61
Aviation Systems Technology.....	AAS	A60200	62
Basic Law Enforcement Training (BLET).....	Certificate	C55120	64
Biotechnology.....	AAS	A20100	66
*Business Administration	AAS	A25120	68
*Business Administration	Diploma	D25120	70
*Business Administration – Banking	Certificate	C25120D	71
*Business Administration – Customer Service	Certificate	C25120F.....	71
*Business Administration – Transfer Prep	Certificate	C25120H.....	71
*Business Administration – Human Resource Management....	Certificate	C25120G	71
*Business Administration: Operations Management.....	AAS	A2512G	72
*Business Administration: Operations Management – Total Quality Management.....	Certificate	C2512G	72
Computer-Integrated Machining Technology	AAS	A50210	74
Computer-Integrated Machining Technology – Basic Machinist	Certificate	C50210A	76

*These programs are available in a completely online format.

Degrees and Programs

Program	Award	Program Code	Page
Computer-Integrated Machining Technology – CNC Multi-Axis.....	Certificate	C50210E.....	77
Computer-Integrated Machining Technology – CNC Operator	Certificate	C50210C	76
Computer-Integrated Machining Technology – CNC Programmer	Certificate	C50210D	77
Computer-Integrated Machining Technology – Intermediate Machinist.....	Certificate	C50210B.....	76
Computer-Integrated Machining Technology – Metrology.....	Certificate	C50210H.....	77
Computer Technology Integration (CTI) emphasis in Business Applications	AAS	A25500A	78
CTI – A+ Prep	Certificate	C25500U	90
CTI – Cisco CCNA Prep.....	Certificate	C25500V	90
CTI – Cyber Security Administration.....	Certificate	C25500O	82
CTI – Cyber Security Concepts	Certificate	C25500M	81
CTI – Cyber Security Technician	Certificate	C25500P.....	82
CTI – Database Specialist	Certificate	C25500A	84
CTI – emphasis in Business Applications.....	Diploma	D25500A	78
Computer Technology Integration (CTI) emphasis in Cyber Security	AAS	A25500E.....	80
CTI – emphasis in Cyber Security.....	Diploma	D25500E.....	81
Computer Technology Integration (CTI) emphasis in Database Systems	AAS	A25500B	83
CTI – emphasis in Database Systems.....	Diploma	D25500B	83
Computer Technology Integration (CTI) emphasis in IT Support	AAS	A25500C	85
CTI – emphasis in IT Support.....	Diploma	D25500C	86
Computer Technology Integration (CTI) emphasis in IT Support – Medical	AAS	A25500D	87
Computer Technology Integration (CTI) emphasis in Network Management	AAS	A25500F	88
CTI – emphasis in Network Management.....	Diploma	D25500F.....	89

Degrees and Programs

Program	Award	Program Code	Page
Computer Technology Integration (CTI) emphasis in Software and Web Development	AAS	A25500G	92
CTI – emphasis in Software and Web Development.....	Diploma	D25500G	93
CTI – Entry Level Computer Technician	Certificate	C25500X.....	86
CTI – Information Assurance Concepts.....	Certificate	C25500N	82
CTI – IT Accounting Tech.....	Certificate	C25500F	81
CTI – IT Government/Contracting.....	Certificate	C25500G	84
CTI – Linux Operating Systems.....	Certificate	C25500T.....	90
CTI – Medical Office Technician	Certificate	C25500H	88
CTI – Network Management Core.....	Certificate	C25500R.....	91
CTI – Operating Systems Survey	Certificate	C25500W	91
CTI – Productivity Software.....	Certificate	C25500C	81
CTI – Security+ Prep.....	Certificate	C25500Q	82
CTI – Visual BASIC Development Specialist.....	Certificate	C25500K	93
CTI – Web Development Specialist.....	Certificate	C25500J	93
CTI – Windows Operating Systems	Certificate	C25500S	91
Cosmetology.....	Diploma	D55140	94
Cosmetology.....	Certificate	C55140	95
*Criminal Justice Technology.....	AAS	A55180	98
*Criminal Justice Technology.....	Certificate	C55180	100
*Criminal Justice Technology.....	Diploma	D55180	101
*Criminal Justice Technology – Correctional Technology.....	Certificate	C55180A	100
*Criminal Justice Technology – Homeland Security/ Terrorism	Certificate	C55180B.....	100
*Criminal Justice Technology – Law Enforcement	Certificate	C55180C	100
Management			
Criminal Justice Technology – Transfer BLET Prep	Certificate	C55180E.....	100
Early Childhood Education	AAS	A55220	102
Early Childhood Education	Diploma	D55220	104
Early Childhood Education	Certificate	C55220	105

*These programs are available in a completely online format.

Degrees and Programs

Program	Award	Program Code	Page
Early Childhood Education - Child Development	Diploma	D55220A	104
Early Childhood Education - Child Development	Certificate	C55220A	105
Electrical Engineering Technology	Diploma	D40180	106
Electrical Engineering Technology-Electrical Maint Specialization Commercial	Certificate	C40180C	107
Electrical Engineering Technology-Electrical Maint Specialization Residential	Certificate	C40180A	107
Electronics Engineering Technology	AAS	A40200	108
Electronics Engineering Technology – Electronic Technician	Certificate	C40200B	110
Electronics Engineering Technology – Intro to Electronics	Certificate	C40200A	110
Electronics Engineering Technology – Basic Robotics	Certificate	C40200C	111
*Entrepreneurship	AAS	A25490	112
*Entrepreneurship	Diploma	D25490	114
*Entrepreneurship	Certificate	C25490	115
Esthetics Technology	Certificate	C55230	96
Health Information Technology	AAS	A45360	116
Hospitality Management	AAS	A25110	118
Infant/Toddler Care	Certificate	C55290	105
Manufacturing Technology	AAS	A50320	120
Manufacturing Technology: Machining	Certificate	C50320A	120
Manufacturing Technology: Design	Certificate	C50320B	120
Manufacturing Technology: Composites	AAS	A50320A	122
Manufacturing Technology: Composites	Diploma	D50320A	124
Manufacturing Technology: Composites	Certificate	C50320AA	125
Manufacturing Technology: Composites – Journeyman Certificate	Certificate	C50320AB	125
Manufacturing Technology: Composites – Quality Assurance Certificate	Certificate	C50320AC	125
Medical Assisting	AAS	A45400	126
Medical Assisting	Diploma	D45400	126

*These programs are available in a completely online format.

Degrees and Programs

Program	Award	Program Code	Page
Medical Scribe – Post-Diploma	Certificate	C45400	128
*Medical Office Administration.....	AAS	A25310	130
*Medical Office Administration.....	Diploma	D25310	130
*Medical Office Administration – Billing/Scheduling.....	Certificate	C25310	132
*Medical Office Administration – Coding	Certificate	C25310C	132
*Medical Office Administration – Medical Office Receptionist	Certificate	C25310E.....	133
NC Division of Child Development Credential.....			105
Nursing.....	AAS	A45110	134
Nursing: Practical Nursing	Diploma	D45660	136
Pharmacy Technology	Diploma	D45580	138
Physical Therapist Assistant.....	AAS	A45620	140
Welding Technology.....	AAS	A50420	142
Welding Technology.....	Diploma	D50420	144
Welding Technology – Entry Level Welding.....	Certificate	C50420A	144
Welding Technology – Handyman Welding	Certificate	C50420C	144

Degrees and Programs

Program	Award	Program Code	Page
Career-Technical Education Pathway Options			
Automotive Systems Technology – Electrical/Electronic	Certificate	C60160B	60
Automotive Systems Technology – Undercar	Certificate	C60160C	61
Business Administration – Customer Service	Certificate	C25120F	71
*Business Administration – Transfer Prep	Certificate	C25120H	71
Computer-Integrated Machining Technology – Basic Machinist	Certificate	C50210A	76
CTI – A+ Prep	Certificate	C25500U	90
CTI – Entry Level Computer Tech	Certificate	C25500X	86
CTI – Cyber Security Concepts	Certificate	C25500M	81
Criminal Justice Technology – Transfer BLET Prep	Certificate	C55180E	100
Early Childhood Education – Child Development	Certificate	C55220A	105
Electronic Engineering Technology – Intro to Electronics	Certificate	C40200A	110
*Entrepreneurship	Certificate	C25490	115
MOA – Medical Office Receptionist	Certificate	C25310E	133
Welding Technology – Entry Level Welding	Certificate	C50420A	144
College Transfer Pathway Options			
Leading to the Associate in Arts (AA) Degree		P1012C	
Leading to the Associate in Science (AS) Degree		P1042C	

*These programs are available in a completely online format.

Degrees and Programs

■ ACCOUNTING (A25100)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
ACC 120	Principles of Financial Acct	4
BUS 110	Intro to Business	3
CIS 110	Introduction to Computers, or	
CIS 111	Basic PC Literacy	3/2
MAT 143	Quantitative Literacy	3

Spring Semester – Year One Credits

ACC 121	Principles of Managerial Acct	4
ACC 131	Federal Income Taxes	3
ACC 140	Payroll Accounting	2
BUS 115	Business Law I	3
_____	Accounting Major Elective	2-3

Summer Semester – Year One Credits

ENG 111	Writing and Inquiry	3
_____	Humanities/Fine Arts	3
PSY 150	General Psychology	3

Fall Semester – Year Two Credits

ACC 150	Accounting Software Apps	2
ACC 180	Practices in Bookkeeping	3
ACC 215	Ethics in Accounting	3
ACC 225	Cost Accounting	3
MKT 120	Principles of Marketing	3
_____	Accounting Major Elective	3-4

Spring Semester – Year Two Credits

ACC 220	Intermediate Accounting I	4
ACC 240	Govt and Not-for-Profit Acct	3
ACC 269	Audit and Assurance Servs	3
COM 231	Public Speaking	3
ECO _	Economics	3
_____	Accounting Major Elective	3-4

Total Credits 71

See p. 145 for Career Program Economics, Humanities/
Fine Arts and Social/Behavioral Sciences courses lists.

Accounting Major Elective courses – 7 hours required

		Credits
ACC 132	NC Business Taxes	2
BUS 116	Business Law II	3
BUS 125	Personal Finance	3
BUS 139	Entrepreneurship	3
BUS 153	Human Resource Management	3
BUS 225	Business Finance	3
CTS 130	Spreadsheet	3
WBL 111	Work-Based Learning I (10 hr work)	1
WBL 112	Work-Based Learning I (20 hr work)	2
WBL 121	Work-Based Learning II (10 hr work)	1

■ 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 71 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, finance, 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.

■ Admission Criteria

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

■ Student Learning Outcomes

Graduates of this program will be able to:

- Analyze, classify and record transactions for profit organizations.
- Produce payroll records, record payroll for employers and employees, and file various payroll reports.
- Demonstrate mastery of accounting skills for adjusting entries, correction of accounting errors, payroll, inventory, depreciation, and internal controls and fraud prevention.

■ 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, and 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.

■ Contact Information

**Chair for Business, Technology
and Education Programs**
(252) 638-7326

Admissions Office
(252) 638-7200

Degrees and Programs

■ ACCOUNTING – Payroll Accounting (D25100)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
ACC 120	Principles of Financial Acct	4
ACC 131	Federal Income Taxes	3
CIS 110	Introduction to Computers, or	
CIS 111	Basic PC Literacy	3/2
MAT 115	Mathematical Models	3
Spring Semester – Year One		Credits
ACC 132	NC Business Taxes	2
ACC 140	Payroll Accounting	2
ACC 121	Principles of Managerial Acct	4
MKT 120	Principles of Marketing	3
Fall Semester – Year Two		Credits
ACC 150	Accounting Software Apps	2
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		38-39

■ ACCOUNTING – Payroll Accounting (C25100)

Certificate Awarded

Course		Credits
ACC 120	Principles of Financial Acct	4
ACC 131	Federal Income Taxes	3
ACC 132	NC Business Taxes	2
ACC 140	Payroll Accounting	2
ACC 150	Accounting Software Apps	2
CIS 110	Introduction to Computers, or	
CIS 111	Basic PC Literacy	3/2
Total Credits		15-16

■ ACCOUNTING – Small Business Accounting (C25100A)

Certificate Awarded

Course		Credits
ACC 120	Principles of Financial Acct	4
ACC 131	Federal Income Taxes	3
ACC 132	NC Business Taxes	2
ACC 150	Accounting Software Apps	2
BUS 115	Business Law I	3
BUS 139	Entrepreneurship	3
Total Credits		17

Degrees and Programs

■ ASSOCIATE IN ARTS (A10100)

Degree Awarded: Associate in Arts

RECOMMENDED COURSE SEQUENCE

Fall Semester		Credits
ENG 111	Writing and Inquiry	3
_____	Math UGETC	3/4
_____	Humanities/Fine Arts UGETC	3
_____	Social/Behav Science UGETC	3
*HEA 110	Personal Health/Wellness, or	
*PED ____	2 credit hours of PED	3/2
Spring Semester		Credits
ACA 122	College Transfer Success	1
*ENG 112	Writing/Research in the Disciplines	3
_____	History Requirement	3
_____	Math Requirement	3/4
_____	Natural Sciences UGETC	4
Fall Semester		Credits
_____	Literature Requirement	3
_____	Natural Sciences UGETC	4
_____	Social/Behav Science UGETC	3
_____	Humanities/Fine Arts UGETC	3
_____	Transfer Elective	1-4
Spring Semester		Credits
_____	Humanities/Fine Arts Requirement	3
_____	Social/Behav Science Requirement	3
_____	Transfer Elective	1-3
_____	Transfer Elective	1-3
_____	Transfer Elective	1-3
Total Credits		60

**Recommended courses. Other transfer courses from the same category (Math Core Group I, Humanities/Fine Arts Core, Natural Sciences Electives, etc.) as listed on pages 149 (Transfer Course Options) may be used in its place. Please see an advisor to determine the best course for your program.*

The Humanities/Fine Arts Core courses should be from two discipline areas outside of Literature. Only one COM Course can be used to meet the requirement.

The Social/Behavioral Science Core courses should be from two discipline areas outside of History. Only one HIS course can be used in this category.

■ 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. For information on the options and sequencing required, check the current Associate in Arts Advising Sheets, available online at www.cravencc.edu.

■ Admission Criteria

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

■ Student Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to collect, interpret, and formulate conclusions from data using both quantitative and qualitative methods.
- Write and speak with clarity, coherence, and persuasiveness.
- Appreciate, analyze, and interpret the role and value of the fine arts in society and culture.
- Demonstrate how historical, philosophical, cultural, global, and 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.

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

**Chair of Communication,
Humanities and Fine Art
(252) 638-7328**

**Dean, Liberal Arts and University Transfer
(252) 638-3745**

**Chair of Math, Science and Social Science
(252) 638-7345**

**Admissions Office
(252) 638-7200**

Degrees and Programs

■ ASSOCIATE IN FINE ARTS: Art (A10200)

Degree Awarded: Associate in Fine Arts

RECOMMENDED COURSE SEQUENCE

First Semester		Credits
ART 114	Art History Survey I	3
ART 121	Two-Dimensional Design	3
ART 131	Drawing I	3
ENG 111	Writing and Inquiry	3
HEA 110	Personal Health/Wellness, or	
PED 110	Fit and Well for Life	2-3
_____	Social/Behav Science Core	3
Second Semester		Credits
ACA 122	College Transfer Success	1
ART 115	Art History Survey II	3
ART 122	Three-Dimensional Design	3
*ENG 112	Writing/Research in the Disciplines	3
_____	Humanities/Fine Art Core	3
_____	Mathematics Gen Ed Core	3
* _____	Other Required Core	3
Third Semester		Credits
_____	History Gen Ed Core	3
_____	Literature Gen Ed Core	3
_____	Natural Science Gen Ed Core	4
_____	Com/Hum/FA Gen Ed Core	3
ART 171	Computer Art I, or	
ART 240	Painting I, or	
ART 281	Sulpture I	3
* _____	Other Required Hours	3
Fourth Semester		Credits
_____	History Core	3
_____	Social/Behav Science Core	3
ART 171	Computer Art I, or	
ART 240	Painting I, or	
ART 281	Sulpture I	3
ART _____	AFA - Art Course	3
* _____	Other Required Hours	3
* _____	Other Required Hours	3
Total Credits		64

■ Program Description

The Associate in Fine Arts (AFA) degree with a concentration in Art is designed to transfer into baccalaureate degree programs for students who wish to complete a Bachelor in Fines 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.

**The listing of Other Required Hours for AFA-Art students can be found on pages 153-154. Please see an advisor to determine the best course for your program.*

ART 121 is a prerequisite for any studio art course in two-dimensional art with the exception of ART 131. ART 122 is a prerequisite of any studio art class in three-dimensional art. These prerequisites apply within the Fine Arts degree, not to the courses themselves.

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.

The Communications/Humanities/Fine Arts Core courses should be from a discipline area outside of Literature.

The Social/Behavioral Science Core courses should be from two discipline areas outside of History. Only one HIS course can be used in this category.

■ Admission Criteria

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

■ Student 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 using both quantitative and qualitative methods.
- Write and speak with clarity, coherence, and persuasiveness.
- Demonstrate how historical, philosophical, cultural, global, and 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

■ 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.

Academic advisors are the best source of information in preparing specific portfolio requirements for university programs.

■ Contact Information

**Chair of Communication,
Humanities and Fine Art**
(252) 638-7328

Admissions Office
(252) 638-7200

Degrees and Programs

■ ASSOCIATE IN FINE ARTS: Music (A10200)

Degree Awarded: Associate in Fine Arts

RECOMMENDED COURSE SEQUENCE

First Semester		Credits
ENG 111	Writing and Inquiry	3
MUS 110	Music Appreciation	3
MUS 111	Fundamentals of Music	3
MUS 151	Class Music I	1
_____	Other Required Hours	1-4
_____	Social/Behav Science Gen Ed Core	3
Second Semester		Credits
ACA 122	College Transfer Success	1
*ENG 112	Writing/Research in the Disciplines	3
HEA 110	Personal Health/Wellness, or	2-3
PED 110	Fit and Well for Life	
_____	Mathematics Gen Ed Core	3
MUS 121	Music Theory I	4
MUS 152	Class Music II	1
MUS 161	Applied Music I	2
Third Semester		Credits
_____	Literature	3
_____	Natural Science Gen Ed Core	4
_____	Com/Hum/FA Gen Ed Core	3
MUS 162	Applied Music II	2
MUS 112	Introduction to Jazz, or	3
MUS 113	American Music	
_____	Other Required Hours	3
Fourth Semester		Credits
_____	History Core	3
_____	Social/Behav Science Core	3
MUS 261	Applied Music III	2
_____	AFA Music Course	1-4
_____	Other Required Hours	1-4
_____	Other Required Hours	1-4
Total Credits		64

■ Program Description

The Associate in Fine Arts (AFA) degree with a concentration in Music is designed to transfer into baccalaureate degree programs for students who wish to complete a Bachelor in Fines Arts (BFA) degree in Music, a Bachelor's 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.

**The listing of Other Required Hours for AFA-Music students can be found on pages 153-154. Please see an advisor to determine the best course for your program.*

AFA Music Elective courses should be selected to meet the audition requirements for the student's specific area of music (voice or instrument).

The Communications/Humanities/Fine Arts General Education Core class should be from a discipline area outside of Literature.

The Social/Behavioral Science Core courses should be from two discipline areas outside of History.

■ Admission Criteria

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

■ Student 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 using both quantitative and qualitative methods.
- Write and speak with clarity, coherence, and persuasiveness.
- Demonstrate how historical, philosophical, cultural, global, and 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.

Academic advisors are the best source of information in meeting audition requirements for university programs.

■ Contact Information

**Chair of Communication,
Humanities and Fine Art**
(252) 638-7328

Admissions Office
(252) 638-7200

Degrees and Programs

■ ASSOCIATE IN GENERAL EDUCATION (A10300)

Degree Awarded: Associate in General Education

RECOMMENDED COURSE SEQUENCE

First Semester		Credits
ACA ____	College Success Skills	1-2
ENG 111	Writing and Inquiry	3
_____	*Humanities/Fine Arts Core	3
HEA 110	Personal Health and Wellness, or	
PED 110	Fit and Well for Life	2-3
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
Second Semester		Credits
ENG 112	Writing/Research in the Disciplines, or	
ENG 114	Professional Research and Reporting	3
_____	*Social/Behav Science Core	3
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
Third Semester		Credits
_____	**Natural Science or MAT	4/3
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
Fourth Semester		Credits
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
_____	Course No. ≥ 110 except ACA and WBL	1-4
Total Credits		64

■ 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, if certain criteria are met, the transfer of courses from a North Carolina community college into a bachelor degree program at the UNC-System universities. However, college transfer courses taken within the Associate in General Education degree will be transferable on a course-by-course basis. A student completing this degree may combine a variety of college transferable general education courses with industrial or service technologies core courses to obtain an associate's degree that is applicable to his or her specific job or career goal.

**Select from Humanities/Fine Arts and Social/Behavioral Sciences courses listed in the Universal General Education Transfer Component Courses (UGETC) or Additional General Education courses for the AA or AS degree on pages 149-150. Please see an advisor to determine the best course for your program.*

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

*** Any Math or Natural Sciences course from the Universal General Education Transfer Component (UGETC) list for the AA or AS degree or the Additional General Education Course list on pages 149-150. 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), can not be used for this degree.

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.

■ Admission Criteria

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

■ Student 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 speak with clarity, coherence, and persuasiveness.
- Describe the role and value of the arts and humanities in society and culture.
- Demonstrate how historical, philosophical, cultural, global, and 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

**Chair of Communication,
Humanities and Fine Art**
(252) 638-7328

Chair of Math, Science and Social Science
(252) 638-7345

Admissions Office
(252) 638-7200

Degrees and Programs

■ ASSOCIATE IN SCIENCE (A10400)

Degree Awarded: Associate in Science

RECOMMENDED COURSE SEQUENCE

Fall Semester		Credits
ENG 111	Writing and Inquiry	3
_____	Math UGETC	4
_____	Social/Behav Science UGETC	3
*HEA 110	Personal Health/Wellness, or	
*PED ____	2 credit hours of PED	2-3

Spring Semester		Credits
ACA 122	College Transfer Success	1
*ENG 112	Writing/Research in the Disciplines	3
_____	Humanities/Fine Arts UGETC	3
_____	Math UGETC	4
_____	Natural Sciences UGETC	4

Fall Semester		Credits
_____	Literature Requirement	3
_____	Math or Natural Sciences Requirement	4
_____	History Requirement	3
_____	General Education Requirement	3

Spring Semester		Credits
_____	General Education Requirement	3-4
_____	Social/Behav Science Requirement	3
_____	Transfer Elective	3
_____	Transfer Elective	3
_____	Transfer Elective	3
_____	Transfer Elective	2-3

Total Credits **60**

**Recommended courses. Other transfer courses from the same category (Math Core Group I, Humanities/Fine Arts Core, Natural Sciences Electives, etc.) as listed on pages 149 (Transfer Course Options) may be used in its place. Please see an advisor to determine the best course for your program.*

The Humanities/Fine Arts Core courses should be from two discipline areas outside of Literature. Only one COM course can be used to meet the requirement.

The Social/Behavioral Science Core courses should be from two discipline areas outside of History. Only one HIS course can be used in this category.

■ 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 and represent the **General Education Core** of the AS.

In accordance with the revised Curriculum Articulation Agreement of 2014, The Associate in Science 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 Science degree. For information on the options and sequencing required, check the current Associate in Science advising sheets, available online at www.cravencc.edu.

■ Diploma

Students may receive a **Transfer Core Diploma** upon completion of the 44-46 hour General Education Core plus their Academic Success Skills course with a grade of “C” or higher in all transfer courses. This diploma is noted on the transcript and verifies to the senior university or college that the General Education (Basic Studies) requirements of the bachelor’s degree are complete. The Transfer Core Diploma contains all courses indicated here except these selections named “Natural Science or MAT Elec.”

■ Admission Criteria

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

Before initiating study for an A.S. degree, a student must have achieved a mathematical proficiency which includes intermediate level algebra. At Craven Community College, this means that a student must have tested beyond Intermediate Algebra (MAT 080). If this is not the case the student must speak with an advisor in order to choose the proper preparatory courses.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Integrate content across and between scientific disciplines.
- Demonstrate the ability to collect, interpret, and formulate conclusions from data using both quantitative and qualitative methods.
- Write and speak with clarity, coherence, and persuasiveness.
- Appreciate, analyze, and interpret the role and value of fine arts in society and culture.
- Demonstrate how historical, philosophical, cultural, global, and 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.

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

Chair of Math, Science and Social Science
(252) 638-7345

Admissions Office
(252) 638-7200

Degrees and Programs

■ AUTOMOTIVE SYSTEMS TECHNOLOGY (A60160)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
AUT 151	Brake Systems	3
AUT 151A	Brake Systems Lab*	1
TRN 110	Intro to Transport Tech	2
TRN 120	Basic Transport Electricity	5
TRN 170	PC Skills for Transport	2

Spring Semester – Year One Credits

AUT 141	Suspension and Steering Sys	3
AUT 181	Engine Performance	3
AUT 181A	Engine Performance Lab*	1
ENG 111	Writing and Inquiry	3
TRN 140	Transport Climate Control	2
TRN 140A	Transport Climate Control Lab*	2
_____	Automotive Major Elective	1

Summer Semester – Year One Credits

ENG 114	Professional Research and Reporting	3
HUM 110	Technology and Society	3
MAT 110	Math Measurements and Literacy	3

Fall Semester – Year Two Credits

AUT 116	Engine Repair	3
AUT 116A	Engine Repair Lab*	1
AUT 163	Advanced Auto Electricity	3
AUT 183	Engine Performance 2	4
CIS 113	Computer Basics	1
_____	Automotive Major Elective	1

Spring Semester – Year Two Credits

ATT 140	Emerging Transport Technologies	3
AUT 221	Auto Transmission/Transaxles	3
AUT 231	Man Trans/Axles/Drivetrains	3
AUT 231A	Man Trans/Axles/Drivetrains Lab*	1
PSY 150	General Psychology	3
_____	Automotive Major Elective	1

Total Credits 65

See p. 145 for Career Program Humanities/Fine Arts course lists.

Major Elective courses – Choose a total of 3 hours

	Credits
AUT 113 Automotive Servicing I	2
AUT 141A Suspension and Steering Systems Lab*	1
AUT 163A Advanced Auto Electricity Lab*	3
AUT 212 Auto Shop Management	3
AUT 213 Automotive Servicing II	2
AUT 221A Auto Transmission/Transaxles Lab*	1
TRN 120A Basic Transport Electricity Lab*	1
WBL 110 World of Work	1
WBL 111 Work-Based Learning I (10 hr work)	1
WBL 112 Work-Based Learning I (20 hr work)	2
WBL 113 Work-Based Learning I (30 hr work)	3
WBL 121 Work-Based Learning II (10 hr work)	1
WBL 122 Work-Based Learning II (20 hr work)	2
WBL 131 Work-Based Learning III (10 hr work)	1

*Denotes a corequisite. Lab must be taken with corresponding class.

■ Program Description

The Automotive Systems Technology curriculum prepares students for employment as automotive service technicians. The program provides an introduction to 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 drive trains.

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.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Follow NATEF standards to demonstrate proficiency in: engine repair; engine performance; automatic transmission and transaxle; manual drive train and axle; suspension and steering; brakes; electrical/electronic systems; and heating and air conditioning.

■ Career Opportunities

Upon completion of 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

**Chair of Industrial, Transportation
and Service Programs**
(252) 638-4550

Admissions Office
(252) 638-7200

Degrees and Programs

■ AUTOMOTIVE SYSTEMS TECHNOLOGY – Drivetrain (C60160A)

Certificate Awarded

Course	Credits
TRN 110 Intro to Transport Tech	2
AUT 116 Engine Repair	3
AUT 116A Engine Repair Lab	1
AUT 221 Auto Transmission/Transaxles	3
AUT 221A Auto Transmission/Transaxles Lab	1
AUT 231 Manual Trans/Axles/Drivetrains	3
AUT 231A Manual Trans/Axles/Drivetrains Lab	1
Total Credits	14

■ AUTOMOTIVE SYSTEMS TECHNOLOGY – Electrical/Electronic (C60160B)*

Certificate Awarded

Course	Credits
AUT 163 Advanced Auto Electricity	3
AUT 181 Engine Performance I	3
TRN 110 Intro to Transport Tech	2
TRN 120 Basic Transport Electricity	5
TRN 170 PC Skills for Transport	2
Total Credits	15



*An approved High School *Career and College*
Promise Career-Technical Education Pathway

■ AUTOMOTIVE SYSTEMS TECHNOLOGY – Undercar (C60160C)*

Certificate Awarded

Course	Credits
AUT 141 Suspension and Steering	3
AUT 141A Suspension and Steering Lab	1
AUT 151 Brake Systems	3
AUT 151A Brake Systems Lab	1
AUT 181 Engine Performance I	3
TRN 110 Intro to Transport Tech	2
TRN 120 Basic Transport Electricity	5
Total Credits	18

*An approved High School *Career and College*
Promise Career-Technical Education Pathway

Degrees and Programs

■ AVIATION SYSTEMS TECHNOLOGY (A60200)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
AVI 110	Aviation Maintenance General	15
CIS 111	Basic PC Literacy	2*

Spring Semester – Year One Credits

AVI 120	Airframe Maintenance I	12
ENG 111	Writing and Inquiry	3

Fall Semester – Year Two Credits

AVI 130	Airframe Maintenance II (A-term)	9
AVI 230	Airframe Maintenance III (B-term)	7
ENG 112	Writing/Research in the Disciplines	3
———	Social/Behavioral Sciences (Choose one from Economics or Social/Behavioral Science List 1)	3

Spring Semester – Year Two Credits

AVI 250	Powerplant Maintenance II	15
MAT 110	Math Measurements and Literacy	3

Fall Semester – Year Three Credits

AVI 240	Powerplant Maintenance I (A-term)	6
AVI 260	Powerplant Maintenance III (B-term)	9
HUM 110	Technology and Society	3

Total Credits 91

See p. 145 for Career Program Economics and Social/Behavioral Sciences course lists.

*WBL 111 (2 semesters) or WBL 112 (1 semester) may be substituted for CIS 111

■ 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.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Apply technical data to make repairs to aircraft structures.
- Write an aircraft logbook entry for work performed.
- Identify the major operational sections of an aircraft turbine engine.

■ Career Opportunities

Upon graduation, students enter the work force as mechanics with:

- air carriers
- aircraft manufacturers
- repair stations
- fixed base operators
- flight schools
- government aviation operations.

Some students also find employment while enrolled in the program through the Student Career Experience Program at Fleet Readiness Center East, Cherry Point Marine Corps Air Station.

■ 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 for Aviation Systems Technology
(252) 447-5727

Admissions Office
(252) 638-7200
or
(252) 444-6012



Degrees and Programs

■ BASIC LAW ENFORCEMENT – TRAINING (C55120)

Certificate Awarded

RECOMMENDED COURSE SEQUENCE

Fall or Spring Semester – Year One		Credits
CJC 100	Basic Law Enforcement Training	19
Total Credits		19

■ Program Description

The certificate level program in Basic Law Enforcement Training 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 19 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)

Degrees and Programs

- 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.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Demonstrate knowledge of constitutional, criminal and civil law for North Carolina that would be applicable for an entry-level law enforcement officer.
- Demonstrate the physical and mental ability to perform the duties of an entry-level law enforcement officer.
- Successfully complete the North Carolina State BLET Comprehensive Written Exam.

■ 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.

■ Additional Educational Opportunities

Upon successful completion of CJC 100, 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.

■ Contact Information

Director of BLET Program
(252) 638-7282

Admissions Office
(252) 638-7200



Degrees and Programs

■ BIOTECHNOLOGY (A20100) In Association with Pitt Community College

Degree Awarded: Associate in Applied Science
(by Pitt Community College)

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One (Craven CC) Credits

ACA 111	College Student Success	1
BIO 111	General Biology I	4
CHM 131 131A	Introduction to Chemistry and Intro to Chemistry Lab, or	
CHM 151	General Chemistry I	4
ENG 111	Writing and Inquiry	3
MAT 115	Mathematical Models	3

Spring Semester – Year One (Craven CC) Credits

BIO 112	General Biology II	4
BIO 275	Microbiology	4
CHM 132	Organic and Biochemistry	4
CIS 110 WEB 110	Introduction to Computers, or Internet/Web Fundamentals	3

Summer Semester – Year One (Craven CC) Credits

ENG 114	Professional Research and Reporting	3
HUM 160 or	Intro to Film, or Humanities/Fine Arts	3
—	Social/Behavioral Science (Choose one from List 2)	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 110	Conceptual Physics, and	
PHY 110A	Conceptual Physics Lab	
PHY 125	Health Sciences Physics, or	
PHY 151*	College Physics I (choose two)	8
BTC 288 or	Biotech Lab Experience, or	
WBL 112*	Work-Based Learning I	2
Total Credits		67

*PHY 151 and WBL 112 may be taken at Craven Community College

See p. 145 for Career Program Humanities and Fine Arts and Social/Behavioral Sciences course lists.

■ 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 completion of 67 total SHC.

■ 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, and quality control/quality assurance technician.

Courses that appear in **BOLD** are taught at Craven Community College.

■ Admission Criteria

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

■ Career Opportunities

Graduates may find employment in various areas of industry and government, including:

- research and development
- manufacturing
- pharmaceuticals
- forensic laboratories
- sales
- customer service.

■ Contact Information

Chair of Math, Science and Social Science
(252) 638-7345

Admissions Office
(252) 638-7200

Degrees and Programs

■ BUSINESS ADMINISTRATION (A25120)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
ACC 120	Principles of Financial Acct	4
BUS 110	Intro to Business	3
CIS 110	Introduction to Computers	3
ENG 111	Writing and Inquiry	3

Spring Semester – Year One Credits

ACC 121	Principles of Managerial Acct	4
BUS 137	Principles of Management	3
BUS 240	Business Ethics	3
COM 231	Public Speaking	3
MAT 143	Quantitative Literacy	3

Summer Semester – Year One Credits

ENG 114	Professional Research and Reporting	3
HFA _	Humanities/Fine Arts Elective	3
PSY 150	General Psychology	3

Fall Semester – Year Two Credits

BUS 115	Business Law I	3
_____	Business Admin. Major Elective	3
_____	Economics Elective	3
MKT 120	Principles of Marketing	3
MKT 223	Customer Service	3

Spring Semester – Year Two Credits

BUS 153	Human Resource Management	3
BUS 225	Business Finance	3
BUS 239	Business Applications Seminar	2
_____	Business Admin. Major Elective	3
CTS 130	Spreadsheet	3

Total Credits 68

■ Business Administration Major Elective courses – 6 hours required

		Credits
ACC 131	Federal Income Taxes	3
ACC 132	North Carolina Business Taxes	2
BAF 110	Principles of Banking	3
BAF 111	Teller Training	2
BAS 120	Business Analytics I	3
BUS 116	Business Law II	3
BUS 125	Personal Finance	3
BUS 139	Entrepreneurship	3
BUS 217	Employment Law and Regs	3
BUS 234	Training and Development	3
BUS 253	Leadership and Mgmt Skills	3
WBL 111	Work-Based Learning I (10 hr work)	1
DBA 110	Database Concepts	3
ISC 132	Manufacturing Quality Control	3
MKT 123	Fundamentals of Selling	3
WBL 112	Work-Based Learning I (20 hr work)	2
WBL 121	Work-Based Learning II (10 hr work)	1
WBL 122	Work-Based Learning II (20 hr work)	2
WBL 131	Work-Based Learning III (10 hr work)	1

*See p. 145 for Career Program Economics, Humanities/
Fine Arts and Social/Behavioral Sciences course lists.*

■ 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 68 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 nonprofit organizations.

■ Admission Criteria

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

■ Student Learning Outcomes

Graduates of this program will be able to:

- Describe how to establish and sustain a strong customer service culture for a business.
- Demonstrate how basic economic principles, such as supply and demand, set the framework for business.
- Show how a strong market framework can allow a business to thrive.
- Evaluate the use of financial resources in business decision-making to maximize the success of a business.
- Develop a plan to integrate all of a business' resources to achieve business goals.

■ Career Opportunities

- supervisor
- management trainee
- business owner/entrepreneur
- financial insurance planning and sales
- human resource specialist

■ Contact Information

**Chair for Business, Technology
and Education Programs**
(252) 638-7326

Admissions Office
(252) 638-7200

Degrees and Programs

■ BUSINESS ADMINISTRATION (D25120)

Diploma Awarded

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
ACC 120	Principles of Financial Acct	4
BUS 110	Intro to Business	3
CIS 110	Introduction to Computers	3
ENG 111	Writing and Inquiry	3
Spring Semester – Year One		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		Credits
BUS 115	Business Law I	3
MKT 120	Principles of Marketing	3
MKT 223	Customer Service	3
_____	Business Admin. Major Elective	3
_____	Economics Elective	3
Total Credits		41

Degrees and Programs

■ BUSINESS ADMINISTRATION – Banking (C25120D)

Certificate Awarded

Course	Credits
BAF 110 Principles of Banking	3
BAF 111 Teller Training	3
BUS 125 Personal Finance	3
MKT 120 Principles of Marketing	3
MKT 123 Fundamentals of Selling	3
MKT 223 Customer Service	3
Total Credits	18

■ BUSINESS ADMINISTRATION – Customer Service (C25120F)*

Certificate Awarded

Course	Credits
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 123 Fundamentals of Selling	3
MKT 223 Customer Service	3
Total Credits	18

■ BUSINESS ADMINISTRATION – Human Resource Management (C25120G)

Certificate Awarded

Course	Credits
BUS 115 Business Law I	3
BUS 137 Principles of Management	3
BUS 153 Human Resource Management	3
BUS 217 Employment Law and Regs	3
BUS 234 Training and Development	3
CIS 110 Introduction to Computers	3
Total Credits	18

■ BUSINESS ADMINISTRATION – Transfer Prep (C25120H)*

Certificate Awarded

Course	Credits
ACC 120 Principles of Financial Acct	4
ACC 121 Principles of Managerial Acct	4
BUS 115 Business Law I	3
CIS 110 Introduction to Computers	3
ECO 251 Principles of Microeconomics	3
Total Credits	17

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Degrees and Programs

■ BUSINESS ADMINISTRATION: Operations Management (A2512G)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
ACC 120	Principles of Financial Acct	4
CIS 110	Introduction to Computers	3
ENG 111	Writing and Inquiry	3
OMT 110	Intro to Operations Mgt	3

Spring Semester – Year One Credits

ACC 121	Principles of Managerial Acct	4
BUS 137	Principles of Management	3
ISC 121	Environ Health and Safety	3
OMT 112	Materials Management	3
———	Business Administration Ops Mgt Major Elective	3

Summer Semester – Year One Credits

ECO 251	Principles of Microeconomics	3
———	Humanities/Fine Arts	3
PSY 150	General Psychology	3

Fall Semester – Year Two Credits

BUS 115	Business Law I	3
BUS 153	Human Resource Management	3
ISC 131	Quality Management, or	3
ISC 132	Mfg Quality Control	
ISC 210	Ops and Production Planning	3
MAT 143	Quantitative Literacy	3
MKT 120	Principles of Marketing	3

Spring Semester – Year Two Credits

BUS 225	Business Finance	3
———	Business Administration Ops Mgt Major Elective	3
COM 231	Public Speaking	3
OMT 260	Issues in Operations Mgt	3

Total Credits 69

Business Administration: Operations Management Major Elective courses – 6 hours required

		Credits
ACC 225	Cost Accounting	3
BAS 120	Business Analytics I	3
BUS 139	Entrepreneurship	3
BUS 217	Employment Law and Regs	3
BUS 234	Training and Development	3
BUS 240	Business Ethics	3
BUS 253	Leadership and Mgt Skills	3
CTS 130	Spreadsheet	3
CTS 240	Project Management	3
DBA 110	Database Concepts	3
ISC 221	Statistical Quality Control	3
ISC 272	Quality Manufacturing Concepts	3
MKT 223	Customer Service	3
WBL 111	Work-Based Learning I (10 hr work)	1
WBL 112	Work-Based Learning I (20 hr work)	2
WBL 121	Work-Based Learning II (10 hr work)	1

See p. 145 for Career Program Economics, Humanities/
Fine Arts and Social/Behavioral Sciences course lists.

■ BUSINESS ADMINISTRATION: OPERATIONS MANAGEMENT – Total Quality Management (C2512G)

Certificate Awarded

Course		Credits
BUS 115	Business Law I	3
BUS 137	Principles of Management	3
ISC 121	Environ Health and Safety	3
ISC 131	Quality Management, or	3
ISC 132	Manufacturing Quality Control	
MKT 223	Customer Service	3
OMT 110	Intro to Operations Mgt	3

Total Credits 18

■ Program Description

Operations Management is a concentration under the Business Administration curriculum. The program is designed to educate individuals in the technical and managerial aspects of operations for manufacturing and service industries. Craven's operations management program involves 69 SHC of study and emphasizes analytical reasoning, problem solving, and continuous improvement concepts required in today's dynamic business and industry environments. Key program concepts include quality, productivity, organizational effectiveness, financial analysis, and the management of human, physical and information resources.

Part of an operations manager's job is to come up with ways to make processes more efficient. Traditional factory methods, such as mass assembly lines, have given way to "lean" production techniques, which give managers more flexibility. Service operations are also requiring that staffing and other resources quickly react to changing customer demands. Operations management courses in materials management, environmental safety, and operations and production planning give students the tools to create teams for high performing service and manufacturing operations. Students may complete the program online, as well as in traditional face-to-face formats.

■ Admission Criteria

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

■ Student Learning Outcomes

Graduates of this program will be able to:

- Design facility layout, considering capacity, process (including sequence and use of equipment, personnel and technology), and location to maximize efficient operation of the business.
- Determine inventory and material requirements for the business.
- Describe service and product design for the business.
- List employee operations needed to have a safe working environment that complies with OSHA standards.

■ Career Opportunities

Graduates should qualify for leadership positions or enhance their professional skills in:

- supervision
- team leadership
- operations planning
- quality assurance
- manufacturing and service management
- logistics/distribution
- health and safety
- human resources management
- inventory/materials management.

■ 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

**Chair for Business, Technology
and Education Programs**
(252) 638-7326

Admissions Office
(252) 638-7200

Degrees and Programs

■ COMPUTER-INTEGRATED MACHINING TECHNOLOGY (A50210)

Degree Awarded: Associate in Applied Science

First Semester – Year One		Credits
ACA 111	College Student Success	1
MAC 111	Machining Technology I	6
MAC 121	Intro to CNC	2
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
MAC 131	Blueprint Reading/Mach I	2
WLD 112	Basic Welding Processes	2
Second Semester – Year One		Credits
MAC 112	Machining Technology II	6
MAC 126	CNC Metal Fabrication	2
MAC 132	Blueprint Reading/Mach II	2
MAC 153	Compound Angles	2
MAC 248	Production Procedures	2
Summer Semester – Year One		Credits
ENG 111	Writing and Inquiry	3
MAT 121	Algebra/Trigonometry I	3
PSY 150	General Psychology	3
First Semester – Year Two		Credits
ENG 114	Professional Research and Reporting	3
MAC 226	CNC EDM Machining	2
MAC 231	CAM: CNC Turning	3
MAC 232	CAM: CNC Milling	3
MAC 233	Applications in CNC Machining	6
Second Semester – Year Two		Credits
HUM 110	Technology and Society	3
MAC 222	Advanced CNC Turning	2
MAC 224	Advanced CNC Milling	2
MAC 229	CNC Programming	2
———	Computer-Integrated Machining	3
	Major Elective	
Total Credits		69

See p. 145 for Career Program Economics, Humanities/
Fine Arts and Social/Behavioral Sciences course lists.

■ 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.

Computer-Integrated Machining Major Elective courses – 3 hours required

DFT 152	CAD II	3
MAC 114	Introduction to Metrology	2
MAC 160	Coordinate Measuring Machining	3
MAC 228	Advanced CNC Processes	3
MAC 234	Adv Multi-Axis Machining	3
MAC 241	Jigs and Fixtures I	4
MAC 243	Die Making I	4
MAC 245	Mold Construction I	4
MEC 142	Physical Metallurgy	2
WBL 110	World of Work	1
WBL 111	Work-Based Learning I (10 hr work)	1
WBL 112	Work-Based Learning I (20 hr work)	2
WBL 113	Work-Based Learning I (30 hr work)	3
WBL 121	Work-Based Learning II (10 hr work)	1
WBL 122	Work-Based Learning II (20 hr work)	2
WBL 131	Work-Based Learning III (10 hr work)	1

■ Admission Criteria

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

■ Student Learning Outcomes

- Perform the following tasks in a safe manner: precision measurement, layout, drilling, sawing, turning, milling and grinding.
- Interpret mechanical work drawings and produce complex parts using a variety of machines.

■ 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

**Chair of Industrial, Transportation
and Service Programs**
(252) 638-4550

Admissions Office
(252) 638-7200

Degrees and Programs

■ COMPUTER-INTEGRATED MACHINING TECHNOLOGY – Basic Machinist (C50210A)*

Certificate Awarded

Course	Credits
MAC 131 Blueprint Reading/Mach I	2
MAC 111 Machine Technology I	6
MAC 121 Intro to CNC	2
MAC 122 CNC Turning	2
MAC 124 CNC Milling	2
Total Credits	14

■ COMPUTER-INTEGRATED MACHINING TECHNOLOGY – Intermediate Machinist (C50210B)

Certificate Awarded

Course	Credits
MAC 112 Machine Technology II	6
MAC 126 CNC Metal Fabrication	2
MAC 131 Blueprint Reading/Mach I	2
MAC 132 Blueprint Reading/Mach II	2
MAC 222 Advanced CNC Turning	2
MAC 224 Advanced CNC Milling	2
Total Credits	16

■ COMPUTER-INTEGRATED MACHINING TECHNOLOGY – CNC Operator (C50210C)

Certificate Awarded

Course	Credits
MAC 121 Intro to CNC	2
MAC 122 CNC Turning	2
MAC 124 CNC Milling	2
MAC 126 CNC Metal Fabrication	2
MAC 131 Blueprint Reading/Mach I	2
MAC 132 Blueprint Reading/Mach II	2
MAC 226 CNC EDM Machining	2
MAC 248 Production Procedures	2
Total Credits	16

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■ COMPUTER-INTEGRATED MACHINING TECHNOLOGY – CNC Programmer (C50210D)

Certificate Awarded

Course	Credits
DFT 152 CAD II	3
MAC 121 Intro to CNC	2
MAC 222 Advanced CNC Turning	2
MAC 224 Advanced CNC Milling	2
MAC 229 CNC Programming	2
MAC 231 CAM: Turning	3
MAC 232 CAM: Milling	3
Total Credits	17

■ COMPUTER-INTEGRATED MACHINING TECHNOLOGY – Metrology (C50210H)

Certificate Awarded

Course	Credits
DFT 152 CAD II	3
MAC 114 Introduction to Metrology	2
MAC 131 Blueprint Reading/Mach I	2
MAC 132 Blueprint Reading/Mach II	2
MAC 160 Coordinate Measuring Machine	3
Total Credits	12

■ COMPUTER-INTEGRATED MACHINING TECHNOLOGY – CNC Multi-Axis (C50210E)

Certificate Awarded

Course	Credits
MAC 121 Intro to CNC	2
MAC 153 Compound Angles	2
MAC 228 Advanced CNC Processes	3
MAC 229 CNC Programming	2
MAC 233 Application in CNC Machining	3
MAC 234 Advanced Multi-Axis Machining	3
Total Credits	15

Degrees and Programs

Computer Technology Integration Program

■ CTI–EMPHASIS IN BUSINESS APPLICATIONS (A25500A)

Degree Awarded: Associate in Applied Science

Fall Semester – Year One Credits

ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3

Spring Semester – Year One Credits

CIS 115	Intro to Prog and Logic	3
CTS 120	Hardware/Software Support	3
CTS 130	Spreadsheet	3
DBA 110	Database Concepts	3
DBA 240	Database Analysis and Design	3
WEB 110	Internet/Web Fundamentals	3

Summer Semester – Year One Credits

ENG 114	Professional Research and Reporting	3
_____	Humanities/Fine Arts Elective	3
MAT 143	Quantitative Literacy, or	3/4
MAT 152	Statistical Methods I, or	
MAT 171	Precalculus Algebra	

Fall Semester – Year Two Credits

ACC 120	Prin of Financial Acct	4
BAS 120	Business Analytics I	3
CTS 115	Info Sys Business Concepts	3
CTS 240	Project Management	3
OST 136	Word Processing	3

Spring Semester – Year Two Credits

ECO 251	Principles of Microeconomics	3
NOS 130	Windows Single User	3
_____	CTI Major Elective	4

Total Credits 69

Computer Technology Integration Business Major Elective courses – 4 hours required

		Credits
ACC 150	Accounting Software Appl	2
CSC 139	Visual BASIC Programming	3
CTI 289	CTI Capstone Project	3
CTS 155	Tech Support Functions	3
CTS 287	Emerging Technologies	3
OST 164	Text Editing Applications	3
OST 184	Records Management	3
SEC 110	Security Concepts	3
WBL 111	Work-Based Learning I (10 hr work)	1
WEB 151	Mobile Application Dev I	3
WEB 210	Web Design	3

■ CTI–EMPHASIS IN BUSINESS APPLICATIONS (D25500A)

Diploma Awarded

Fall Semester – Year One Credits

CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3

Spring Semester – Year One Credits

CTS 120	Hardware/Software Support	3
CTS 130	Spreadsheet	3
DBA 110	Database Concepts	3
DBA 240	Database Analysis and Design	3
WEB 110	Internet/Web Fundamentals	3

Summer Semester – Year One Credits

MAT 143	Quantitative Literacy, or	4
MAT 152	Statistical Methods I, or	
MAT 171	Precalculus Algebra	

Fall Semester – Year Two Credits

BAS 120	Business Analytics I	3
CTS 240	Project Management	3
CTS 115	Info Sys Business Concepts	3
OST 136	Word Processing	3

Spring Semester – Year Two Credits

NOS 130	Windows Single User	3
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Total Credits 48

■ Program Description

The Computer Technology Integration (CTI) curriculum prepares graduates for employment as Information Technology analysts, designers, technicians, administrators, developers, or programmers with organizations that use computers to design, process, manage, and communicate information. Students will select a cluster of classes that highlight specific technical paths such as Business Applications, Cyber Security, Data Support, IT Support, IT Support-Medical, Network Management, and Software and Web Development. Each emphasis leads to certificates and diplomas within the program, and ultimately students graduate with an AAS degree in CTI with an emphasis in the identified track.

Coursework develops a student's ability to communicate professionally. Students also learn to apply programming logic principles, identify security risks, select appropriate hardware and software computer components, evaluate operating system performance and use various business software applications.

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

■ Admission Criteria

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

■ Student Learning Outcomes

Graduates of this program will be able to:

- Apply programming logic principles to database and web development.
- Identify security risks to a networked information system.
- Choose hardware and software components for a computer system.
- Evaluate appropriate operating system configurations for various scenarios.

■ Career Opportunities

Graduates should qualify for entry-level positions with industry, small business, service occupations, and government offices as:

- computer support specialists
- database administrators
- information systems managers
- telecommunications specialists
- web developers.

CTI students can train and test for a variety of industry-recognized certifications, including A+, Security+ and Net+. Students can register for IT certification testing through an authorized Prometric Testing Center. Register for exams at www.prometric.com.

■ 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

**Chair for Business, Technology
and Education Programs**
(252) 638-7326

Admissions Office
(252) 638-7200

Degrees and Programs

Computer Technology Integration Program

■ CTI–EMPHASIS IN CYBER SECURITY (A25500E)

Degree Awarded: Associate in Applied Science

Fall Semester – Year One Credits

ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3

Spring Semester – Year One Credits

CTS 120	Hardware/Software Support	3
DBA 120	Database Programming	3
NET 125	Networking Basics	3
NOS 130	Windows Single User	3
SEC 110	Security Concepts	3

Summer Semester – Year One Credits

ENG 114	Professional Research and Reporting	3
MAT 143	Quantitative Literacy, or	3/4
MAT 152	Statistical Methods I, or	
MAT 171	Precalculus Algebra	
_____	Humanities/Fine Arts Elective	3

Fall Semester – Year Two Credits

CTS 115	Info Sys Business Concepts	3
NOS 120	Linux Single User	3
NOS 230	Windows Administration I	3
SEC 150	Secure Communications	3
SEC 160	Secure Administration I	3

Spring Semester – Year Two Credits

ECO 251	Principles of Microeconomics	3
NOS 220	Linux Administration I	3
CTI 289	CTI Capstone Project	3
_____	CTI Major Elective	4
SEC 260	Secure Administration II	3

Total Credits 71

CTI Cyber Security AAS Major Elective courses – 4 hours required

	Credits
BAS 120 Business Analytics I	3
BUS 135 Principles of Supervision	3
BUS 137 Principles of Management	3
BUS 139 Entrepreneurship I	3
BUS 234 Training and Development	3
CIS 115 Intro to Programming and Logic	3
CSC 139 Visual BASIC Programming	3
CSC 239 Adv Visual BASIC Programming	3
CTS 130 Spreadsheet	3
CTS 155 Tech Support Functions	3
CTS 240 Project Management	3
CTS 287 Emerging Technologies	3
DBA 210 Database Administration	3
DBA 221 SQL Server DB Prog II	3
MED 121 Medical Terminology I	3
NET 126 Routing Basics	3
NET 260 Internet Dev and Support	3
OST 149 Medical Legal Issues	3
WBL 111 Work-Based Learning I (10 hr work)	1
WEB 151 Mobile Application Dev I	3

■ CTI–EMPHASIS IN CYBER SECURITY (D25500E)

Diploma Awarded

Fall Semester – Year One		Credits
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3
Spring Semester – Year One		Credits
CTS 115	Info Sys Business Concepts	3
CTS 120	Hardware/Software Support	3
NET 125	Networking Basics	3
NOS 130	Windows Single User	3
SEC 110	Security Concepts	3
Summer Semester – Year One		Credits
MAT 143	Quantitative Literacy, or	3/4
MAT 152	Statistical Methods I, or	
MAT 171	Precalculus Algebra	
Fall Semester – Year Two		Credits
NOS 120	Linux Single User	3
NOS 230	Windows Administration I	3
SEC 150	Secure Communications	3
SEC 160	Secure Administration I	3
Spring Semester – Year Two		Credits
NOS 220	Linux Administration I	3
Total Credits		48

■ PRODUCTIVITY SOFTWARE CERTIFICATE (C25500C)

Certificate Awarded

Course	Credits
BAS 120 Business Analytics I	3
CIS 110 Introduction to Computers	3
CTS 130 Spreadsheet	3
CTS 240 Project Management	3
DBA 110 Database Concepts	3
Total Credits	15

■ IT ACCOUNTING TECH CERTIFICATE (C25500F)

Certificate Awarded

Course	Credits
ACC 120 Principles of Financial Acct	4
ACC 150 Accounting Software Applications	2
CIS 110 Introduction to Computers, or CIS 111 Basic PC Literacy	3/2
CTS 130 Spreadsheet	3
CTI 120 Network and Security Foundation	3
Total Credits	14-15

■ CYBER SECURITY CONCEPTS (C25500M)*

Certificate Awarded

Course	Credits
CTI 120 Network and Security Foundation	3
CTS 115 Info Sys Business Concepts	3
NET 125 Networking Basics	3
NOS 110 Operating Systems Concepts	3
SEC 110 Security Concepts	3
Total Credits	15

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Degrees and Programs

Computer Technology Integration Program

■ CYBER SECURITY ADMINISTRATION (C255000)

Certificate Awarded

Course		Credits
CTI 120	Network and Security Foundation	3
NET 125	Networking Basics	3
SEC 110	Security Concepts	3
SEC 150	Secure Communications	3
SEC 160	Secure Administration I	3
Total Credits		15

■ CYBER SECURITY TECHNICIAN (C25500P)

Certificate Awarded

Course		Credits
CTI 120	Network and Security Foundation	3
NET 125	Networking Basics	3
SEC 110	Security Concepts	3
SEC 160	Secure Administration I	3
SEC 260	Secure Administration II	3
Total Credits		15

■ INFORMATION ASSURANCE CONCEPTS (C25500N)

Certificate Awarded

Course		Credits
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
CTS 115	Info Sys Business Concepts	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating Systems Concepts	3
SEC 110	Security Concepts	3
Total Credits		18

■ SECURITY + PREP (C25500Q)

Certificate Awarded

Course		Credits
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
NOS 110	Operating Systems Concepts	3
SEC 110	Security Concepts	3
Total Credits		12

■ CTI–EMPHASIS IN DATA SUPPORT SERVICES (A25500B)

Degree Awarded: Associate in Applied Science

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3
Spring Semester – Year One		Credits
CIS 115	Intro to Prog and Logic	3
CSC 139	Visual BASIC Programming	3
CTS 120	Hardware/Software Support	3
DBA 110	Database Concepts	3
DBA 120	Database Programming	3
DBA 240	Database Analysis/Design	3
Summer Semester – Year One		Credits
ENG 114	Professional Research and Reporting	3
_____	Humanities/Fine Arts Elective	3
MAT 143	Quantitative Literacy, or	3
MAT 152	Statistical Methods I, or	
MAT 171	Precalculus Algebra	
Fall Semester – Year Two		Credits
BAS 120	Business Analytics I	3
CTS 115	Info Sys Business Concepts	3
CTS 155	Tech Support Functions	3
CTS 240	Project Management	3
DBA 220	Oracle DB Programming, or	3
DBA 221	SQL Server DB Prog II, or	
DBA 223	MySQL DB Programming II	
Spring Semester – Year Two		Credits
CTI 289	CTI Capstone Project	3
ECO 251	Principles of Microeconomics	3
SEC 110	Security Concepts	3
_____	CTI Major Elective	4
Total Credits		71

■ CTI–EMPHASIS IN DATA SUPPORT SERVICES (D25500B)

Diploma Awarded

Fall Semester – Year One		Credits
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3
Spring Semester – Year One		Credits
CIS 115	Intro to Prog and Logic	3
CSC 139	Visual BASIC Programming	3
CTS 120	Hardware/Software Support	3
DBA 110	Database Concepts	3
DBA 120	Database Programming	3
DBA 240	Database Analysis/Design	3
Summer Semester – Year One		Credits
MAT 143	Quantitative Literacy, or	3
MAT 152	Statistical Methods I, or	
MAT 171	Precalculus Algebra	
Fall Semester – Year Two		Credits
CTS 115	Info Sys Business Concepts	3
CTS 240	Project Management	3
BAS 120	Business Analytics I	3
DBA 220	Oracle DB Programming, or	3
DBA 221	SQL Server DB Prog II, or	
DBA 223	MySQL DB Programming II	
Total Credits		48

Degrees and Programs

Computer Technology Integration Program

CTI Database Systems AAS Major Elective courses – 4 hours required

		Credits
CSC 239	Adv Visual BASIC Programming	3
CTS 130	Spreadsheet	3
CTS 287	Emerging Technologies	3
DBA 210	Database Administration	3
DBA 220	Oracle DB Programming II, or	3
DBA 221	SQL Server DB Programming II, or	
DBA 223	MySQL DB Programming II	
NOS 130	Windows Single User	3
NOS 230	Windows Administration I	3
SEC 160	Secure Administration 1	3
WBL 111	Work-Based Learning I (10 hr work)	1
WEB 151	Mobile Application Dev I	3
WEB 210	Web Design	3

■ IT GOVERNMENT/CONTRACTING CERTIFICATE (C25500G)

Certificate Awarded

Course		Credits
CIS 110	Introduction to Computers	3
CTI 120	Network and Security Foundation	3
CTS 130	Spreadsheet	3
CTS 240	Project Management	3
DBA 110	Database Concepts	3
SEC 110	Security Concepts	3
Total Credits		18

■ DATA SUPPORT SPECIALIST CERTIFICATE (C25500A)

Certificate Awarded

Course		Credits
BAS 120	Business Analytics I	3
CTI 110	Web, Programming and DB Foundation	3
DBA 110	Database Concepts	3
DBA 120	Database Programming	3
DBA 240	Database Analysis/Design	3
DBA 220	Oracle DB Programming II, or	3
DBA 221	SQL Server DB Prog II, or	
DBA 223	MySQL DB Programming II	
Total Credits		18

■ CTI–EMPHASIS IN IT SUPPORT (A25500C)

Degree Awarded: Associate in Applied Science

Fall Semester		Credits
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3
Spring Semester – Year One		Credits
CIS 115	Intro to Prog and Logic	3
CTS 120	Hardware/Software Support	3
CTS 130	Spreadsheet	3
DBA 110	Database Concepts	3
NOS 130	Windows Single User	3
Summer Semester – Year One		Credits
ENG 114	Professional Research and Reporting	3
_____	Humanities/Fine Arts Elective	3
MAT 143	Quantitative Literacy, or	3/4
MAT 152	Statistical Methods I, or	
MAT 171	Precalculus Algebra	
Fall Semester – Year Two		Credits
CTS 115	Info Sys Business Concepts	3
CTS 155	Tech Support Functions	3
CTS 240	Project Management	3
NET 125	Networking Basics	3
NOS 230	Windows Administration I	3
_____	CTI Major Elective	1
Spring Semester – Year Two		Credits
CTI 289	CTI Capstone Project	3
ECO 251	Principles of Microeconomics	3
NET 126	Routing Basics, or	3
NET 260	Internet Development and Support	
SEC 110	Security Concepts	3
WEB 110	Internet/Web Fundmtls.	3
Total Credits		71

CTI IT Support AAS Major Elective courses – 1 hour required

		Credits
BAS 120	Business Analytics I	3
CSC 139	Visual BASIC Programming	3
CTS 287	Emerging Technologies	3
DBA 120	Database Programming	3
DBA 210	Database Administration	3
DBA 240	Database Analysis/Design	3
NET 126	Routing Basics	3
NET 260	Internet Dev and Support	3
SEC 160	Secure Administration I	3
WBL 111	Work-Based Learning I (10 hr work)	1
WEB 151	Mobile Application Dev I	3
WEB 210	Web Design	3



Degrees and Programs

Computer Technology Integration Program

■ CTI–EMPHASIS IN IT SUPPORT (D25500C)

Diploma Awarded

Fall Semester – Year One		Credits
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CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3

Spring Semester – Year One		Credits
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CTS 120	Hardware/Software Support	3
CTS 130	Spreadsheet	3
DBA 110	Database Concepts	3
NOS 130	Windows Single User	3

Summer Semester – Year One		Credits
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MAT 143	Quantitative Literacy, or	
MAT 152	Statistical Methods I, or	
MAT 171	Precalculus Algebra	3/4

Fall Semester – Year Two		Credits
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CTS 115	Info Sys Business Concepts	3
CTS 155	Tech Support Functions	3
CTS 240	Project Management	3
NET 125	Networking Basics	3
NOS 230	Windows Administration I	3

Spring Semester – Year Two		Credits
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SEC 110	Security Concepts	3
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Total Credits	48
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■ ENTRY LEVEL COMPUTER TECHNICIAN (C25500X)*

Certificate Awarded

Course		Credits
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CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
NOS 110	Operating Systems Concepts	3
NOS 130	Windows Single User	3
SEC 110	Security Concepts	3

Total Credits	15
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Promise Career-Technical Education Pathway

■ CTI–EMPHASIS IN IT SUPPORT-MEDICAL (A25500D)

Degree Awarded: Associate in Applied Science

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3
Spring Semester – Year One		Credits
CTS 120	Hardware/Software Support	3
NET 125	Networking Basics	3
NOS 130	Windows Single User	3
OST 148	Med. Coding Billing & Ins.	3
OST 149	Med Legal Issues	3
SEC 110	Security Concepts	3
Summer Semester – Year One		Credits
ENG 114	Professional Research and Reporting	3
_____	Humanities/Fine Arts Elective	3
MAT 143	Quantitative Literacy, or	3/4
MAT 171	Precalculus Algebra	
Fall Semester – Year Two		Credits
CTS 115	Info Sys Business Concepts	3
CTS 155	Tech Support Functions	3
CTS 240	Project Management	3
MED 121	Medical Terminology I	3
NOS 230	Windows Administration I	3
Spring Semester – Year Two		Credits
DBA 120	Database Programming	3
ECO 251	Principles of Microeconomics	3
OST 243	Medical Office Simulation	3
_____	CTI Major Elective	4
Total Credits		71

CTI IT Support Medical AAS Major Elective courses – 4 hours required

		Credits
BAS 120	Business Analytics I	3
CSC 139	Visual BASIC Programming	3
CSC 239	Adv Visual BASIC Programming	3
CTI 289	CTI Capstone Project	3
CTS 130	Spreadsheet	3
DBA 210	Database Administration	3
DBA 221	SQL Server DB Prog II, or	3
DBA 220	Oracle DB Programming II, or	
DBA 223	MySQL DB Programming II	
NET 126	Routing Basics	3
NET 260	Internet Dev and Support	3
OST 136	Word Processing	3
SEC 150	Secure Communications	3
SEC 160	Secure Administration I	3
WBL 111	Work-Based Learning I (10 hr work)	1
WEB 151	Mobile Application Dev I	3

Degrees and Programs

Computer Technology Integration Program

■ MEDICAL OFFICE TECH CERTIFICATE (C25500H)

Certificate Awarded

Course		Credits
CIS 110	Introduction to Computers, or	
CIS 111	Basic PC Literacy	3/2
CTI 120	Network and Security Foundation	3
DBA 110	Database Concepts	3
MED 121	Medical Terminology I	3
OST 148	Medical Coding Billing & Insurance	3
OST 243	Medical Office Simulation	3
Total Credits		17-18

■ CTI-EMPHASIS IN NETWORK MANAGEMENT (A25500F)

Degree Awarded: Associate in Applied Science

Fall Semester		Credits
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
NET 125	Networking Basics	3
NOS 110	Operating System Concepts	3
Spring Semester – Year One		Credits
CTS 120	Hardware/Software Support	3
DBA 120	Database Programming	3
NET 126	Routing Basics	3
NOS 130	Windows Single User	3
SEC 110	Security Concepts	3
Summer Semester – Year One		Credits
_____	Humanities/Fine Arts Elective	3
ENG 111	Writing and Inquiry	3
MAT 143	Quantitative Literacy, or	
MAT 171	Precalculus Algebra	3/4
Fall Semester – Year Two		Credits
CTS 115	Info Sys Business Concepts	3
NET 225	Routing and Switching I	3
NET 226	Routing and Switching II	3
NOS 230	Windows Administration I	3
NOS 120	Linux Single User	3
_____	CTI Major Elective	1
Spring Semester – Year Two		Credits
CTI 289	CTI Capstone Project	3
ECO 251	Principles of Microeconomics	3
ENG 114	Professional Research and Reporting	3
NET 260	Internet Dev and Support	3
NOS 220	Linux Administration I	3
_____	CTI Major Elective	3
Total Credits		74

CTI Network Management AAS Major Elective courses – 4 hours required

		Credits
BAS 120	Business Analytics I	3
BUS 135	Principles of Supervision	3
BUS 137	Principles of Management	3
BUS 139	Entrepreneurship I	3
BUS 234	Training and Development	3
BUS 240	Business Ethics	3
CIS 115	Intro to Programming and Logic	3
CSC 139	Visual BASIC Programming	3
CSC 239	Adv Visual BASIC Programming	3
CTS 130	Spreadsheet	3
CTS 155	Tech Support Functions	3
CTS 240	Project Management	3
CTS 287	Emerging Technologies	3
DBA 210	Database Administration	3
DBA 221	SQL Server DB Prog II	3
MED 121	Medical Terminology 1	3
OST 149	Medical Legal Issues	3
SEC 150	Secure Communications	3
SEC 160	Secure Administration I	3
WBL 111	Work-Based Learning I (10 hr work)	1
WEB 151	Mobile Application Dev I	3
WEB 210	Web Design	3

■ CTI–EMPHASIS IN NETWORK MANAGEMENT (D25500F)

Diploma Awarded

Fall Semester		Credits
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
NOS 110	Operating System Concepts	3
NET 125	Networking Basics	3
Spring Semester – Year One		Credits
CTS 120	Hardware/Software Support	3
ENG 111	Writing and Inquiry	3
NET 126	Routing Basics	3
NOS 130	Windows Single User	3
SEC 110	Security Concepts	3
Summer Semester – Year One		Credits
MAT 143	Quantitative Literacy, or	3
MAT 152	Statistical Methods I, or	
MAT 171	Precalculus Algebra	
Fall Semester – Year Two		Credits
CTS 115	Info Sys Business Concepts	3
NET 225	Routing and Switching I	3
NET 226	Routing and Switching II	3
NOS 120	Linux Single User	3
NOS 230	Windows Administration I	3
Total Credits		48

Degrees and Programs

Computer Technology Integration Program

■ A + PREP (C25500U)*

Certificate Awarded

Course		Credits
CIS 110	Introduction to Computers	3
CTI 120	Network and Security Foundation	3
CTS 120	Hardware/Software Support	3
NOS 110	Operating System Concepts	3
NOS 130	Windows Single User	3
Total Credits		15

■ CISCO CCNA PREP (C25500V)

Certificate Awarded

Course		Credits
NET 125	Networking Basics	3
NET 126	Routing Basics	3
NET 225	Routing and Switching I	3
NET 226	Routing and Switching II	3
Total Credits		12

■ LINUX OPERATING SYSTEMS (C25500T)

Certificate Awarded

Course		Credits
CTI 120	Network and Security Foundation	3
NOS 110	Operating Systems Concepts	3
NOS 120	Linux Single User	3
NOS 220	Linux Administration I	3
Total Credits		12

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■ NETWORK MANAGEMENT CORE (C25500R)

Certificate Awarded

Course		Credits
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
CTS 115	Info Sys Business Concepts	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating Systems Concepts	3
Total Credits		15

■ WINDOWS OPERATING SYSTEMS (C25500S)

Certificate Awarded

Course		Credits
CTI 120	Network and Security Foundation	3
NOS 110	Operating Systems Concepts	3
NOS 130	Windows Single User	3
NOS 230	Windows Administration I	3
Total Credits		12

■ OPERATING SYSTEM SURVEY (C25500W)

Certificate Awarded

Course		Credits
CTI 120	Network and Security Foundation	3
NOS 110	Operating Systems Concepts	3
NOS 120	Linux Single User	3
NOS 130	Windows Single User	3
Total Credits		12

Degrees and Programs

Computer Technology Integration Program

■ CTI–EMPHASIS IN SOFTWARE AND WEB DEVELOPMENT (A25500G)

Degree Awarded: Associate in Applied Science

First Semester		Credits
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3
Second Semester – Year One		Credits
CIS 115	Intro to Prog and Logic	3
CSC 151	JAVA Programming	3
CTS 120	Hardware/Software Support	3
DBA 120	Database Programming	3
WEB 115	Web Markup and Scripting	3
Summer Semester – Year One		Credits
ENG 114	Professional Research and Reporting	3
_____	Humanities/Fine Arts Elective	3
MAT 143	Quantitative Literacy, or	3/4
MAT 171	Precalculus Algebra	
First Semester – Year Two		Credits
CSC 139	Visual BASIC	3
CSC 284	Emerging Comp Prog Tech	3
CTS 115	Info Sys Business Concepts	3
DBA 223	MySQL DB Programming II	3
WEB 210	Web Design	3
_____	CTI Major Elective	3
Second Semester – Year Two		Credits
CSC 239	Advanced Visual BASIC Programming	3
CTI 289	CTI Capstone Project	3
ECO 251	Principles of Microeconomics	3
SEC 110	Security Concepts	3
_____	CTI Major Elective	1
Total Credits		71

CTI Software and Web Development AAS Major Elective courses – 4 hours required

		Credits
BAS 120	Business Analytics I	3
CSC 134	C++ Programming	3
CTS 130	Spreadsheet	3
CTS 287	Emerging Technologies	3
DBA 110	Database Concepts	3
DBA 220	Oracle DB Programming II	3
DBA 221	SQL Server DB Prog II	3
NOS 130	Windows Single User	3
NOS 230	Windows Administration I	3
WBL 111	Work-Based Learning I (10 hr work)	1
WEB 215	Adv Markup and Scripting	3

■ CTI–EMPHASIS IN SOFTWARE AND WEB DEVELOPMENT (D25500G)

Diploma Awarded

First Semester		Credits
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming and DB Foundation	3
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NOS 110	Operating System Concepts	3
Second Semester – Year One		Credits
CIS 115	Intro to Prog and Logic	3
CSC 139	Visual BASIC Programming	3
CTS 120	Hardware/Software Support	3
DBA 120	Database Programming	3
WEB 115	Web Markup & Scripting	3
Summer Semester – Year One		Credits
MAT 143	Quantitative Literacy, or	3/4
MAT 171	Precalculus Algebra	
First Semester – Year Two		Credits
CSC 239	Adv VB Programming	3
CTS 115	Info Sys Business Concepts	3
DBA 223	MySQL DB Programming II	3
WEB 210	Web Design	3
Second Semester – Year Two		Credits
CSC 151	JAVA Programming	3
Total Credits		48

■ VISUAL BASIC DEVELOPMENT SPECIALIST (C25500K)

Certificate Awarded

Course	Credits
CIS 115	Intro to Programming and Logic 3
CSC 139	Visual BASIC Programming 3
CSC 239	Adv Visual BASIC Programming 3
CTI 110	Web, Programming and DB Foundation 3
Total Credits	12

■ CTI–WEB DEVELOPMENT SPECIALIST (C25500J)

Certificate Awarded

Course	Credits
CIS 115	Intro to Programming and Logic 3
CTI 110	Web, Programming and DB Foundation 3
DBA 120	Database Programming 3
DBA 223	MySQL DB Programming II 3
WEB 115	Web Markup and Scripting 3
WEB 210	Web Design 3
Total Credits	18

Degrees and Programs

■ COSMETOLOGY (D55140)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
COS 111	Cosmetology Concepts I	4
COS 112	Salon I	8
Spring Semester – Year One		Credits
COS 113	Cosmetology Concepts II	4
COS 114	Salon II	8
COS 240	Contemporary Design	2
ENG 111	Writing and Inquiry	3
Summer Semester – Year One		Credits
COS 115	Cosmetology Concepts III	4
COS 116	Salon III	4
Fall Semester – Year Two		Credits
COS 117	Cosmetology Concepts IV	2
COS 118	Salon IV	7
PSY 150	General Psychology	3
Total Credits		50

■ 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 50 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 34 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 RED 080, ENG 080 and ENG 085A (or ENG 085 and 085A) and MAT 060 in order to begin cosmetology courses.

■ COSMETOLOGY (C55140)

Certificate Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
COS 111	Cosmetology Concepts I	4
COS 112	Salon I	8
Spring Semester – Year One		Credits
COS 113	Cosmetology Concepts II	4
COS 114	Salon II	8
COS 240	Contemporary Design	2
Summer Semester – Year One		Credits
COS 115	Cosmetology Concepts III	4
COS 116	Salon III	4
Fall Semester – Year Two		Credits
*COS 117	Cosmetology Concepts IV	2
*COS 118	Salon IV	7
Total Credits		34

*Optional courses if a student needs additional clock hours for state exam

■ Student Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to design and restructure hair and perform skin and nail care within a safe, sanitized and multicultural environment.
- Exhibit skills to increase sales and customers within the salon.
- Recall cosmetology theory and clinical information to successfully complete the North Carolina State Board of Cosmetic Arts exam.

■ 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.

■ Contact Information

**Chair of Industrial, Transportation
and Service Programs**
(252) 638-4550

Admissions Office
(252) 638-7200

Degrees and Programs

■ ESTHETICS TECHNOLOGY (C55230)

Certificate Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
COS 119	Esthetics Concepts I	2
COS 120	Esthetics Salon I	6
Spring Semester – Year One		Credits
COS 125	Esthetics Concepts II	2
COS 126	Esthetics Salon II	6
Total Credits		16

■ 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 for Esthetics

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. Applications are accepted anytime preceding fall enrollment.

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 MAT 060 and ENG 085.
- Submit the Esthetic Program Application and two CCC Esthetics Program Personal Reference forms completed by non-family members prior to last working day in July.
- Attend an individual information session with Cosmetic Arts Faculty member prior to the end of summer semester.
- Upon acceptance, applicants must submit complete immunization history forms, including PPD test, Hepatitis B series and Tetanus booster.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to perform esthetic services within a safe, sanitized, and multi cultural environment.
- Recall both theory and clinical information in order to be successful on the NC State Board of Cosmetic Arts Exam.

■ 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.

■ Contact Information

**Chair of Industrial, Transportation
and Service Programs**

(252) 638-4550

Admissions Office

(252) 638-7200

Degrees and Programs

■ CRIMINAL JUSTICE TECHNOLOGY (A55180)

Degree Awarded: Associate in Applied Science

Traditional Face-to-face Delivery

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
CJC 111	Introduction to Criminal Justice	3
CJC 112	Criminology	3
_____	CJC Tech AAS Major Elective	1-4

Spring Semester – Year One Credits

CJC 113	Juvenile Justice	3
CJC 141	Corrections	3
_____	CJC Tech AAS Major Elective	1-4

Summer Semester – Year One Credits

ENG 111	Writing and Inquiry	3
MAT 143	Quantitative Literacy	3
MAT 171	Precalculus Algebra	4
_____	Humanities/Fine Arts	3

Fall Semester – Year Two Credits

CJC 131	Criminal Law	3
CJC 132	Court Procedure and Evidence	3
CJC 222	Criminalistics	3

Spring Semester – Year Two Credits

CJC 213	Substance Abuse	3
CJC 214	Victimology	3
CJC 221	Investigative Principles	4

Summer Semester – Year Two Credits

CIS 110	Introduction to Computers, or	3/2/1
CIS 111	Basic PC Literacy, or	
CIS 113	Computer Basics	

ENG 114	Professional Research and Reporting	3
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PSY 150	General Psychology, or	3
SOC 210	Introduction to Sociology	

Fall Semester – Year Three Credits

CJC 212	Ethics and Community Relations	3
CJC 231	Constitutional Law	3
_____	CJC Tech AAS Major Elective	1-4

Spring Semester – Year Three Credits

CJC 121	Law Enforcement Operations	3
CJC 215	Organization and Administration	3
_____	CJC Tech AAS Major Elective	1-4

Total Credits 69

Online Delivery

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
CJC 111	Introduction to Criminal Justice	3
CJC 113	Juvenile Justice	3
CJC 141	Corrections	3

Spring Semester – Year One Credits

CJC 112	Criminology	3
CJC 121	Law Enforcement Operations	3
CJC 131	Criminal Law	3

Summer Semester – Year One Credits

ENG 111	Writing and Inquiry	3
MAT 143	Quantitative Literacy, or	3/4
MAT 171	Precalculus Algebra	
PSY 150	General Psychology, or	3
SOC 210	Introduction to Sociology	

Fall Semester – Year Two Credits

CJC 214	Victimology	3
CJC 215	Organization and Administration	3
_____	CJC Tech AAS Major Elective	1-4

Spring Semester – Year Two Credits

CJC 132	Court Procedure and Evidence	3
CJC 212	Ethics and Community Relations	3
_____	CJC Tech AAS Major Elective	1-4

Summer Semester – Year Two Credits

CIS 110	Introduction to Computers, or	3/2/1
CIS 111	Basic PC Literacy, or	
CIS 113	Computer Basics	
ENG 114	Professional Research and Reporting	3
_____	Humanities/Fine Arts	3

Fall Semester – Year Three Credits

CJC 213	Substance Abuse	3
CJC 221	Investigative Principles	4
_____	CJC Tech AAS Major Elective	1-4

Spring Semester – Year Three Credits

CJC 222	Criminalistics	3
CJC 231	Constitutional Law	3
_____	CJC Tech AAS Major Elective	1-4

Total Credits 69

See p. 145 for Career Program Humanities/Fine Arts course lists.

■ 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 69 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 100, 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.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Describe the roles and interrelationships between the principal components of the criminal justice system (that is, law enforcement, the courts, parole, juvenile justice, and corrections).
- Demonstrate basic knowledge of criminal and constitutional law as it relates to the fundamentals of the criminal investigative process.
- Apply the theories and fundamental knowledge of ethics and community policing as they relate to the criminal justice system in a diverse community.

■ Career Opportunities

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. 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

BLET/CJC Curriculum Coordinator
(252) 638-1414

Admissions Office
(252) 638-7200

Degrees and Programs

Criminal Justice Technology AAS Major Elective courses – 9 hours required

		Credits
BIO 111	General Biology I	4
BIO 112	General Biology II	4
CJC 114	Investigative Photography	2
CJC 120	Interview and Interrogation	2
CJC 122	Community Policing	3
CJC 151	Intro to Loss Prevention	3
CJC 160	Terrorism: Underlying Issues	3
CJC 161	Intro to Homeland Security	3
CJC 162	Intel Analysis and Sec Mgmt	3
CJC 170	Critical Incident Mgmt Pub Safety	3
CJC 211	Counseling	3
CJC 223	Organized Crime	3
CJC 232	Civil Liability	3
CJC 233	Correctional Law	3
CJC 241	Community-Based Corrections	3
PSY 281	Abnormal Psychology	3
WBL 111	Work-Based Learning I (10 hr work)	1
WBL 121	Work-Based Learning II (10 hr work)	1
WBL 131	Work-Based Learning III (10 hr work)	1

■ CRIMINAL JUSTICE TECHNOLOGY (C55180)

Certificate Awarded

Traditional Face-to-face Delivery and Online RECOMMENDED COURSE SEQUENCE

Course		Credits
CJC 111	Introduction to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
CJC 131	Criminal Law	3
CJC 132	Court Procedure and Evidence	3
CJC 212	Ethics and Community Relations	3
Total Credits		15

■ CRIMINAL JUSTICE TECHNOLOGY: CORRECTIONAL (C55180A)

Certificate Awarded

Course		Credits
CJC 111	Introduction to Criminal Justice	3
CJC 141	Introduction to Correction	3
CJC 212	Ethics and Community Relations	3
CJC 233	Correctional Law	3
CJC 241	Community-Based Corrections	3

Total Credits 15

■ HOMELAND SECURITY/TERRORISM (C55180B)

Certificate Awarded

Course		Credits
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 and Community Relations	3

Total Credits 15

■ LAW ENFORCEMENT MANAGEMENT (C55180C)

Certificate Awarded

Course		Credits
CJC 111	Introduction to Criminal Justice	3
CJC 162	Intel Analysis & Security Mgmt	3
CJC 170	Critical Inc Mgmt for Pub Safety	3
CJC 212	Ethics and Community Relations	3
CJC 215	Organization and Administration	3

Total Credits 15

■ College/BLET Prep (C55180E)*

Certificate Awarded

Course		Credits
CJC 111	Introduction to Criminal Justice	3
CJC 112	Criminology	3
CJC 121	Law Enforcement Operations	3
CJC 141	Introduction to Correction	3
CJC 212	Ethics and Community Relations	3

Total Credits 15

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■ CRIMINAL JUSTICE TECHNOLOGY (D55180)

Diploma Awarded

Traditional Face-to-face Delivery

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
CJC 111	Introduction to Criminal Justice	3
CJC 112	Criminology	3
CJC 131	Criminal Law	3
CJC 132	Court Procedure and Evidence	3
Spring Semester – Year One		Credits
CJC 113	Juvenile Justice	3
CJC 121	Law Enforcement Operations	3
ENG 111	Writing and Inquiry	3
_____	Humanities/Fine Arts	3
Fall Semester – Year Two		Credits
CJC 212	Ethics and Comm Relations	3
CJC 222	Criminalistics	3
CJC 231	Constitutional Law	3
_____	CJC Diploma Major Elective	2-3
Spring Semester – Year Two		Credits
CJC 214	Victimology	3
CJC 221	Investigative Principles	3
_____	CJC Diploma Major Elective	2-3
Total Credits		44

See p. 145 for Career Program Humanities/Fine Arts course lists.

■ CRIMINAL JUSTICE TECHNOLOGY (D55180)

Diploma Awarded

Online Delivery

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
CJC 111	Introduction to Criminal Justice	3
CJC 113	Juvenile Justice	3
_____	CJC Diploma Major Elective	2-3
Spring Semester – Year One		Credits
CJC 112	Criminology	3
CJC 121	Law Enforcement Operations	3
CJC 131	Criminal Law	3
CJC 132	Court Procedure and Evidence	3
Fall Semester – Year Two		Credits
CJC 214	Victimology	3
CJC 221	Investigative Principles	3
ENG 111	Writing and Inquiry	3
_____	Humanities/Fine Arts	3
Spring Semester – Year Two		Credits
CJC 212	Ethics and Comm Relations	3
CJC 222	Criminalistics	3
CJC 231	Constitutional Law	3
_____	CJC Diploma Major Elective	2-3
Total Credits		44

Criminal Justice Technology Diploma Major Elective courses – 6 hours required

		Credits
CIS 110	Introduction to Computers, or	
CIS 111	Basic PC Literacy, or	
CIS 113	Computer Basics	3/2/1
CJC 114	Investigative Photography	2
CJC 120	Interview and Interrogation	2
CJC 141	Corrections	3
CJC 211	Counseling	3
CJC 160	Terrorism: Underlying Issues	3

Degrees and Programs

■ EARLY CHILDHOOD EDUCATION (A55220)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
CIS 111	Basic PC Literacy	2
EDU 119	Intro to Early Childhood Ed	4
EDU 131	Children, Family and Community	3
EDU 153	Health, Safety & Nutrition	3

Spring Semester – Year One 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 Credits

_____	Humanities/Fine Arts	3
ENG 111	Writing and Inquiry	3
PSY 150	General Psychology, or	3
SOC 210	Introduction to Sociology	

Fall Semester – Year Two Credits

EDU 151	Creative Activities	3
EDU 184	Early Childhood Intro Prac	2
EDU 221	Children with Exceptionalities	3
EDU 259	Curriculum Planning	3
EDU 280	Language and Literacy Exp	3
ENG 112	Writing/Research in the Disciplines	3
ENG 114	Professional Research and Reporting	3

Spring Semester – Year Two Credits

EDU 271	Educational Technology	3
EDU 284	Early Childhood Capstone Prac	4
EDU 288	Adv Issues in Early Childhood	2
BIO 140	Environmental Biology, and	4
BIO 140A	Environmental Biology Lab	
or		
MAT 143	Quantitative Literacy, or	3/4
MAT 171	Precalculus Algebra	

_____	Major Elective	4
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Total Credits 67

Early Childhood Education AAS Major Elective courses – 4 hours required

		Credits
BUS 110	Introduction to Business	3
EDU 125	Sign Language for Educators	3
EDU 157	Active Play	3
EDU 216	Foundations of Education	4
EDU 234A	Infants, Toddlers, and Twos Lab	1
EDU 235	School-Age Dev and Program	3
EDU 261	Early Childhood Admin I	3
EDU 262	Early Childhood Admin II	3
MED 182	CPR, First Aid and Emergency	2
SOC 213	Sociology of the Family	3
SPA 111	Elementary Spanish I	3
SPA 181	Spanish Lab 1	1

■ 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. 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.

See p. 145 for Career Program Humanities/Fine Arts course lists.

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 RED 080, ENG 080 (or ENG 085 and 085A) 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.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Promote child development and learning.
- Build family and community relationships.
- Observe, document, and assess to support young children and families.
- Use developmentally effective approaches to connect with children and families.
- Use content knowledge to build meaningful curriculum.
- Become a professional.

■ Career Opportunities

Employment opportunities include:

- child development and child care programs
- preschools
- public and private schools
- recreational centers
- Head Start programs
- school-age programs.

■ Contact Information

**Chair for Business, Technology
and Education Programs**
(252) 638-7326

Admissions Office
(252) 638-7200

Degrees and Programs

■ EARLY CHILDHOOD EDUCATION (D55220)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
EDU 119	Intro to Early Childhood Ed	4
EDU 131	Children, Family and Community	3
EDU 153	Health, Safety and Nutrition	3
PSY 150	General Psychology, or	
SOC 210	Introduction to Sociology	3

Spring Semester – Year One 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 280	Language and Literacy Exp	3

Summer Semester – Year One Credits

ENG 111	Writing and Inquiry	3
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Fall Semester – Year Two Credits

EDU 151	Creative Activities	3
EDU 184	Early Childhood Intro Prac	2
EDU 221	Children with Exceptionalities	3
ENG 112	Writing/Research in the Disciplines	3
ENG 114	Professional Research and Reporting	3

Total Credits 46

■ EARLY CHILDHOOD PRE-BK DIPLOMA (D55220A)

Diploma Awarded

Fall Semester – Year One Credits

ACA 111	College Student Success	1
EDU 119	Intro to Early Childhood Ed	4
EDU 131	Children, Family and Community	3
EDU 153	Health, Safety and Nutrition	3
PSY 150	General Psychology, or	
SOC 210	Introduction to Sociology	3

Spring Semester – Year One 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 Credits

EDU 151	Creative Activities	3
EDU 221	Children with Exceptionalities	3
EDU 280	Language and Literacy Exp	3
—	Elective	3

Total Credits 42



■ EARLY CHILDHOOD EDUCATION (C55220)

Certificate Awarded

Course	Credits
EDU 119 Intro to Early Childhood Ed	4
EDU 131 Children, Family and Community	3
EDU 146 Child Guidance	3
EDU 153 Health Safety and Nutrition	3
EDU 184 Early Childhood Intro Prac	2

Total Credits 15

■ INFANT/TODDLER CARE (C55290)

Certificate Awarded

Course	Credits
EDU 119 Intro to Early Childhood Ed	4
EDU 131 Children, Family and Community	3
EDU 144 Child Development I	3
EDU 153 Health Safety and Nutrition	3
EDU 234 Infants, Toddlers and Twos	3
EDU 234A Infants, Toddlers and Twos Lab	1

Total Credits 17

■ Early Childhood Education – Child Development (C55220A)*

Certificate Awarded

Course	Credits
EDU 119 Intro to Early Childhood Ed	4
EDU 144 Child Development I	3
EDU 145 Child Development II	3
EDU 146 Child Guidance	3
PSY 150 General Psychology	3

Total Credits 16

N.C. Division of Child Development Credential Certification Options

■ NC-DCD EARLY CHILDHOOD CREDENTIAL

Course	Credits
EDU 119 Intro to Early Childhood Ed	4

■ NC-DCD SCHOOL-AGE CARE CREDENTIAL

Course	Credits
EDU 235 School-Age Dev and Program	3
EDU 145 Child Development II	3

Total Credits 6

■ NC-DCD CHILD CARE ADMINISTRATION

Course	Credits
EDU 261 Early Childhood Administration	3
EDU 262 Early Childhood Admin II	3

Total Credits 6

Students must apply to NCDCCD for their credentials upon completion of coursework. Forms are online at ncchildcare.nc.gov/pdf_forms/dcd-0169.pdf. Original transcripts must be sent to DCD, either directly from Craven Community College, or in a sealed envelope accompanying the student's completed credentials application.

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Degrees and Programs

■ ELECTRICAL ENGINEERING TECHNOLOGY (D40180)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
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		Credits
ELC 113	Basic Wiring I	4
ELN 131	Analog Electronics I	4
ELN 133	Digital Electronics	4
ELC 135	Electrical Machines I	3
Fall Semester – Year Two		Credits
ELC 117	Motors and Controls	4
ELC 118	National Electric Code	2
ELC 119	NEC Calculations	2
ELN 260	Programmable Logic Controllers	4
Total Credits		40

■ Program Description

The Electrical Engineering Technology diploma is designed to provide training for entry-level technicians desiring a career in electrical maintenance and management or in the design, planning, construction, development, and installation of electrical systems, machines, and power generating equipment. According to the Occupational Outlook Handbook, electrical engineering technology involves the generation and supply of power. This program includes various hands-on laboratory classes that focus on current issues in the application of electrical engineering principles. Electrical Engineering Technology prepares students for practical design and production work.

Beginning with electrical fundamentals, coursework in the 40 SHC program progressively introduces electronics, electrical machines and controls, and electrical power systems. In the curriculum, students learn the basics of DC and AC electrical circuits. Other coursework includes the study of various fields associated with the electrical/electronics industry. Students learn basic algebra and trigonometry concepts, as well as receive a thorough grounding in industrial safety.

■ 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.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Safely and effectively use common tools and operate test equipment found in the electrical field.
- Demonstrate a working knowledge of the principles and concepts associated with electrical circuits and systems and the proper utilization of equipment.
- Utilize the National Electrical Code (NEC) to determine proper methods, materials, and protection for branch circuits, feeders, service equipment and general utilization of equipment.
- Perform preventive maintenance, troubleshoot, and repair of electrical machines (motors, generators and transformers) and motor control circuits.

■ Career Opportunities

Graduates may seek employment as technicians, engineering assistants, technical managers, or salespersons in:

- electrical generation/distribution
- industrial maintenance
- electronics repair
- other fields requiring a broad-based knowledge of electrical and electronics concepts.

■ Contact Information

**Chair for Industrial, Transportation
and Service Programs**
(252) 638-4550

Admissions Office
(252) 638-7200

■ ELECTRICAL ENGINEERING TECHNOLOGY – Electrical Maintenance with Specialization in Residential Application (C40180A)

Certificate Awarded

Course		Credits
ELC 113	Basic Wiring I	4
ELC 118	National Electrical Code	2
ELC 119	NEC Calculations	2
ELC 131	Circuit Analysis I	4
ISC 112	Industrial Safety	2

Total Credits 14

■ ELECTRICAL ENGINEERING TECHNOLOGY – Electrical Maintenance with Specialization in Commercial Applications (C40180C)

(Advanced) Certificate Awarded

Course		Credits
ELC 117	Motors and Controls	4
ELN 133	Digital Electronics	4
ELN 231	Industrial Controls	3
ELN 260	Programmable Logic Controllers	4

Total Credits 15

Degrees and Programs

■ ELECTRONICS ENGINEERING TECHNOLOGY (A40200)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
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 Credits

ELC 113	Basic Wiring I	4
ELN 131	Analog Electronics I	4
ELN 133	Digital Electronics	4
MAT 122	Algebra/Trigonometry II	3

Summer Semester – Year One Credits

ENG 114	Professional Research and Reporting	3
HUM 110	Technology and Society	3
PSY 150	General Psychology	3

Fall Semester – Year Two Credits

ELC 117	Motors and Controls	4
ELN 231	Industrial Controls	3
ELN 232	Intro to Microprocessors	4
ELN 260	Programmable Logic Controllers	4

Spring Semester - Year Two Credits

CIS 111	Basic PC Literacy	2
ELC 135	Electrical Machines	3
ELN 132	Linear IC Applications	4
ELN 234	Communication Systems	4
———	Electronic Engineering Tech Major Electives	3

Total Credits 68

See p. 145 for Career Program Humanities/Fine Arts course lists.

Electronics Engineering Technology Major Elective courses – 3 hours required

	Credits
DFT 151 CAD I	3
DFT 152 CAD II	3
ELN 258 FCC Comm License Prep	3
HYD 110 Hydraulic/Pneumatics I	3
WBL 110 World of Work	1
WBL 111 Work-Based Learning I (10 hr work)	1
WBL 112 Work-Based Learning I (20 hr work)	2
WBL 113 Work-Based Learning I (30 hr work)	3
WBL 121 Work-Based Learning II (10 hr work)	1
WBL 122 Work-Based Learning II (20 hr work)	2
WBL 131 Work-Based Learning III (10 hr work)	1

■ 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 68 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.

■ Student 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.

■ Contact Information

**Chair for Industrial, Transportation
and Service Programs**

(252) 638-4550

Admissions Office

(252) 638-7200

Degrees and Programs



■ **ELECTRONICS ENGINEERING TECHNOLOGY – Intro to Electronics (C40200A)***

Certificate Awarded

Course		Credits
ELC 131	Circuit Analysis I	4
ELN 131	Semiconductor Apps	4
ELN 133	Digital Electronics	4
ISC 112	Industrial Safety	2
Total Credits		14

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■ **ELECTRONICS ENGINEERING TECHNOLOGY – Electronic Technician (C40200B)**

Certificate Awarded

Course		Credits
ELN 132	Linear IC Applications	4
ELN 231	Industrial Controls	3
ELN 232	Intro to Microprocessors	4
ELN 234	Communication Systems	4
Total Credits		15

■ **ELECTRONICS ENGINEERING TECHNOLOGY – Basic Robotics (C40200C)**

Certificate Awarded

Course		Credits
ELC 117	Motors and Controls	4
ELN 231	Industrial Controls	3
ELN 260	Programmable Logic Controllers	4
ISC 112	Industrial Safety	2
Total Credits		13

Degrees and Programs

■ ENTREPRENEURSHIP (A25490)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
ACC 120	Principles of Financial Accounting	4
BUS 110	Intro to Business	3
CIS 111	Basic PC Literacy	2
PSY 150	General Psychology, or	
SOC 210	Introduction to Sociology	3

Spring Semester – Year One Credits

ACC 132	N.C. Business Taxes	2
BUS 139	Entrepreneurship	3
BUS 115	Business Law I	3
ETR 220	Innovation and Creativity	3
ETR 230	Entrepreneur Marketing	3

Summer Term Credits

BUS 153	Human Resource Management, or	
HRM 245	Human Resource Mgmt. - Hosp.	3
ENG 111	Writing and Inquiry	3
_____	Humanities/Fine Arts Elective (List II)	3
MAT 143	Quantitative Literacy	3

Fall Semester – Year Two Credits

ENG 114	Professional Research & Reporting	3
ETR 240	Funding for Entrepreneurs	3
ETR 270	Entrepreneurship Issues	3
_____	Entrepreneur Major Elective	3
MKT 223	Customer Service	3

Spring Semester – Year Two Credits

BUS 245	Entrepreneurship II	3
COM 231	Public Speaking	3
ECO 251	Principles of Microeconomics	3
_____	Entrepreneur Major Elective	3
MKT 123	Fundamentals of Selling	3

Total Credits 69

See p. 145 for Career Program Humanities/Fine Arts course lists.

Entrepreneurship Major Electives – 6 hours

		Credits
BUS 217	Employment Law and Reg.	3
BUS 225	Business Finance	3
BUS 240	Business Ethics	3
CTS 130	Spreadsheet	3
DBA 110	Database Concepts	3
SPA 111	Elementary Spanish I	3
WEB 110	Internet/Web Fundamentals	3
WEB 210	Web Design	3

■ Program Description

Students interested in starting their own business can learn the ins and outs of how to get started in the process and how to follow through to be successful through Craven Community College's new Entrepreneurship program. The Entrepreneurship curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth as self-employed business owners.

Coursework includes developing a student's ability to make informed decisions as future business owners. Courses include entrepreneurial concepts learned in innovation and creativity, business funding, and marketing. Additional coursework includes computers and economics.

Students with an interest in art, creative writing, music or welding may also choose up to 6 hours of elective courses within Craven's entrepreneurial program to develop those skills. Basic foreign language acquisition is another optional part of the program students may choose to learn to enable them to operate in the global entrepreneurial economy.

Through these skills, students will have a sound education base in entrepreneurship for lifelong learning. Graduates are prepared to be self-employed and open their own businesses.

■ Admission Criteria

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

■ Student Learning Outcomes

Graduates of this program will be able to:

- Develop a business plan for a new venture.
- Demonstrate creativity and innovation as it relates to new business startup.
- Describe the steps necessary to secure funding for a new business venture.

■ Career Opportunities

Entrepreneurship plays a vital role in the growth of the U.S. economy. The list of new business ideas is limitless, but includes:

- Eating and drinking places
- Health care services
- Personnel supply services
- Computer services
- Management and public relations services
- Real estate
- Amusement and recreation services
- Lawn and home care services
- Sustainable opportunities.

■ Contact Information

**Chair for Business, Technology
and Education Programs**
(252) 638-7326

Admissions Office
(252) 638-7200

Degrees and Programs

■ Entrepreneurship (D25490)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

First Semester – Fall		Credits
ACA 111	College Student Success	1
ACC 120	Principles of Financial Acct	4
BUS 110	Intro to Business	3
CIS 111	Basic PC Literacy	2
PSY 150	General Psychology, or	
SOC 210	Introduction to Sociology	3
Second Semester – Spring		Credits
ACC 132	N.C. Business Taxes	2
BUS 139	Entrepreneurship	3
ETR 220	Innovation and Creativity	3
ETR 230	Entrepreneur Marketing	3
BUS 115	Business Law I	3
Third Semester – Fall		Credits
COM 231	Public Speaking	3
ECO 251	Principles of Microeconomics	3
ETR 270	Entrepreneurship Issues	3
_____	Entrepreneur Major Elective	3
MKT 223	Customer Service	3
Total Credits		42

■ Entrepreneurship (C25490)*

Certificate Awarded

RECOMMENDED COURSE SEQUENCE

First Semester – Fall		Credits
ACC 120	Principles of Financial Acct	4
BUS 110	Intro to Business	3
CIS 111	Basic PC Literacy	2
Second Semester – Spring		Credits
BUS 139	Entrepreneurship	3
ETR 230	Entrepreneur Marketing	3
BUS 115	Business Law I	3
Total Credits		18

*An approved High School *Career and College*
Promise Career-Technical Education Pathway

Degrees and Programs

■ HEALTH INFORMATION TECHNOLOGY (A45360)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
BIO 168	Anatomy and Physiology I	4
CIS 110	Introduction to Computers	3
ENG 111	Writing and Inquiry	3
HIT 110	Fundamentals of HIM	3
MED 121	Medical Terminology I	3

Spring Semester – Year One		Credits
BIO 169	Anatomy and Physiology II	4
HIT 112	Health Law and Ethics	3
HIT 114	Health Data Systems	3
HIT 122	Prof. Practice Exp I	1
MAT 110	Math Measurement and Literacy	3
MED 122	Medical Terminology II	3

Summer Semester – Year One		Credits
DBA 110	Database Concepts	3
ENG 114	Professional Research and Reporting	3
ECO 251	Principles of Microeconomics, or	3
PSY 150	General Psychology	

Fall Semester – Year Two		Credits
HIT 210	Healthcare Statistics	3
HIT 211	ICD Coding	4
HIT 216	Quality Management	2
HIT 220	Health Informatics and EHR	2
HIT 226	Principles of Disease	3

Spring Semester – Year Two		Credits
HIT 214	CPT/ Other Coding	2
HIT 215	Reimbursement Methodologies	2
HIT 218	Management Principles in HIT	3
HIT 222	Prof. Practice Exp III	2
HIT 280	Professional Issues	2
_____	Humanities/Fine Arts Elective	3

Total Credits 70

■ Program Description

Students who are interested in a health care career without direct patient contact may enjoy the Health Information Technology field. Individuals provide information to health care professionals and medical facilities concerning their symptoms and medical history, the results of examinations, reports of X-rays and laboratory tests, diagnoses, and treatment plans. Craven's HIT curriculum provides its graduates with the knowledge and skills to process, analyze, abstract, compile, maintain, manage, and report health information.

The HIT program is 70 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.

The curriculum includes study in anatomy, physiology, and pathophysiology; health care statistics, medical terminology and coding. Students also complete courses in health 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 write 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.

■ 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 admission, progression and graduation requirements.

Admission requirements into the Health Information Technology Program to include the following:

- Admission to Craven Community College must be completed before seeking acceptance into the Health Information Technology program.
- Students must have completed DMA 010 through DMA 050 or MAT 070 and DRE 096 through DRE 098 or ENG 095 or RED 090 or ENG 090 courses, if indicated by the college placement test. Scores on placement tests may require students to take certain developmental courses before entrance into the Health Information Technology program.
- 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 not be able to graduate.

■ Student 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.
- Code, classify, and index diagnoses and procedures for the purpose of reimbursement, standardization, retrieval and statistical analysis.

■ 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/MOA Program Coordinator
(252) 638-7316

Health Programs Admissions Office
(252) 639-2025

Degrees and Programs

■ HOSPITALITY MANAGEMENT (A25110)

Degree Awarded: Associate in Applied Science
(by Carteret Community College)

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One (Craven CC) Credits

ACA 111	College Student Success, or	
ACA 122	College Transfer Success	1
CIS 111	Basic PC Literacy	2
ENG 111	Writing and Inquiry	3
ACC 120	Principles of Financial Accounting	4
MAT 110	Math Measurement and Literacy	3

Spring Semester – Year One (Craven CC)

ART 111	Art Appreciation, or	
HUM 115	Critical Thinking	3
COM 231	Public Speaking	3
HRM 245	Human Resource Mgt – Hospitality	3
SOC 210	Introduction to Sociology	3

Fall Semester – Year Two (Carteret CC)

HRM 110	Intro to Hospitality and Tourism	3
CUL 110	Sanitation and Safety	2
CUL 135	Food and Beverage Service	2
CUL 135A	Food and Beverage Service Lab	1
HRM 120	Front Office Procedures	3
HRM 140	Legal Issues-Hospitality	3

Spring Semester – Year Two (Carteret CC)

CUL 142	Fundamentals of Food	5
HRM 235	Quality Mgmt-Hospitality	3
HRM 240	Marketing for Hospitality	3
HRM 220	Cost Control-Food and Beverage	3
HRM 280	Management Problems-Hospitality	3

Summer Semester – Year Two (Carteret CC)

WBL 112	Work-Based Learning I	2
CUL 120	Purchasing	2
HRM 210	Meetings and Event Planning	3
HRM 215	Restaurant Management	3

Total Credits 66

■ Cooperative Agreement

Craven Community College has established a collaborative agreement with Carteret Community College that allows students to take 27-29 hours of courses at Craven and the remaining courses at Carteret Community College. Carteret Community College awards the Associate in Applied Science Degree in Hospitality Management after the completion of 66 total SHC.

■ Program Description

Students who are interested in a hospitality career can earn more than one-third of their required credits toward an associate's degree, two days a week, or online, at Craven Community College!

The Hospitality Management curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

■ 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 RED 080, ENG 080 and ENG 085A (or ENG 085 and 085A) and MAT 070 in order to enter the Hospitality Management Program.

■ Career Opportunities

Employment opportunities for hospitality career graduates exist in

- restaurants
- tourist sites
- hotels
- hospitals
- rehabilitation facilities
- schools
- banquet facilities

■ Contact Information

**Chair for Business, Technology
and Education Programs
(252) 638-7326**

**Admissions Office
(252) 638-7200**

Degrees and Programs

■ MANUFACTURING TECHNOLOGY (A50320)

Degree Awarded: Associate Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
CIS 111	Basic PC Literacy	2
ELC 131	Circuit Analysis I	4
ISC 112	Industrial Safety	2
MAC 121	Intro to CNC	2
MAC 131	Blueprint Reading/Mach I	2

Spring Semester – Year One Credits

HYD 110	Hydraulics/Pneumatics I	3
MAC 114	Introduction to Metrology	2
MAC 117	Metal Forming Skills I	4
MEC 142	Physical Metallurgy	2
MEC 145	Manufacturing Materials I	3

Summer Semester – Year One

ENG 111	Writing and Inquiry	3
MAT 121	Geometry/Trigonometry	3
PSY 150	General Psychology	3

Fall Semester – Year Two Credits

DFT 151	CAD I	3
DFT 152	CAD II	3
ELC 117	Motors and Controls	4
ISC 132	Manufacturing Quality Control	3
WLD 112	Basic Welding Processes	2

Spring Semester – Year Two Credits

ENG 114	Professional Research and Reporting	3
HUM 110	Technology and Society	3
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
MEC 111	Machine Process I	3
————	Manufacturing Technology: Major Elective	3

Total Credits 67

Manufacturing Technology Major Elective courses - 3 hours required

		Credits
ELN 231	Industrial Controls	3
PLA 162	Plastics Mfg Processes	3
WBL 110	World of Work	1
WBL 111	Work-Based Learning I (10 hr work)	1
WBL 112	Work-Based Learning I (20 hr work)	2
WBL 113	Work-Based Learning I (30 hr work)	3
WBL 121	Work-Based Learning II (10 hr work)	1
WBL 122	Work-Based Learning II (20 hr work)	2
WBL 131	Work-Based Learning III (10 hr work)	1

■ Manufacturing Technology - Machining (C50320A)

Certificate Awarded

Course		Credits
MAC 121	Intro to CNC	2
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
MAC 131	Blueprint Reading/Mach I	2
MEC 111	Machine Processes I	3
WLD 112	Basic Welding Processes	2

Total Credits 13

■ Manufacturing Technology - Design (C50320B)

Certificate Awarded

Course		Credits
DFT 151	CAD I	3
DFT 152	CAD II	3
ISC 112	Industrial Safety	2
MAC 114	Introduction to Metrology	2
MEC 145	Manufacturing Materials I	3

Total Credits 13

■ Program Description

Craven's Manufacturing Technology curriculum provides an introduction to the principles and practices of manufacturing in today's global marketplace. Students will be exposed to valuable high-tech concepts applicable in a variety of industries such as plastics, metals, furniture, textiles, and electronics.

The curriculum provides students with real-world knowledge of manufacturing management practices, manufacturing materials and processes, research and development, and quality assurance. Coursework will include machining processes, Computer-Aided Drafting/Computer-Aided Manufacturing (CAD/CAM), CNC principles, and other computerized production techniques.

This 67 SHC program also provides students with an overview of psychology, technology and society, and industrial controls.

■ Admission Criteria

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

■ Student Learning Outcomes

Graduates of this program will be able to:

- Set up and operate machines utilizing metal, plastic and ceramic materials.
- Demonstrate machine and shop safety practices.
- Describe how to inspect products in accordance with blueprints.

■ Career Opportunities

Graduates should qualify for employment as

- manufacturing technicians
- quality assurance technicians
- CAD/CAM technicians
- team leaders
- research and development technician.

Graduates will be able to advance in the workplace and develop with new technologies. About 14 percent of Craven County's workforce is classified as manufacturing.

■ 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

**Chair for Industrial, Transportation
and Service Programs**
(252) 638-4550

Admissions Office
(252) 638-7200

Degrees and Programs

■ MANUFACTURING TECHNOLOGY: Composites (A50320A)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
BPR 111	Blueprint Reading	2
ISC 112	Industrial Safety	2
MAC 121	Intro to CNC	2
MEC 187	Composite Materials	3
MEC 188	Processing Composites I	3

Spring Semester – Year One Credits

CIS 111	Basic PC Literacy	2
MAC 114	Introduction to Metrology	2
MEC 110	Intro to CAD/CAM	2
MEC 145	Manufacturing Materials I	3
MEC 180	Engineering Materials	3
MEC 189	Processing Composites II	3

Summer Semester – Year One

ENG 111	Writing and Inquiry	3
HUM 110	Technology and Society	3
MAT 121	Algebra/Trigonometry I	3
PSY 150	General Psychology	3

Fall Semester – Year Two Credits

BPR 121	Blueprint Reading/Mech	2
DFT 151	CAD I	3
DFT 152	CAD II	3
ISC 132	Mfg Quality Control	3
MEC 212	Composite Material Test	3
PLA 110	Introduction to Plastics	2

Spring Semester – Year Two Credits

ENG 114	Professional Research and Reporting	3
MAC 117	Metal Forming Skills I	4
MEC 215	Design of Composite Struc	3
———	Manufacturing Technology: Composite—Major Elective	2

Total Credits 68

Manufacturing Technology: Composite Major Elective courses – 2 hours required

		Credits
ELN 231	Industrial Controls	3
PLA 162	Plastics Mfg Processes	3
WBL 110	World of Work	1
WBL 111	Work-Based Learning I (10 hr work)	1
WBL 112	Work-Based Learning I (20 hr work)	2
WBL 113	Work-Based Learning I (30 hr work)	3
WBL 121	Work-Based Learning II (10 hr work)	1
WBL 122	Work-Based Learning II (20 hr work)	2
WBL 131	Work-Based Learning III (10 hr work)	1

■ Program Description

Composites is a concentration under the curriculum title of Manufacturing Technology. This curriculum provides training in various composite (reinforcing fiber in a polymer matrix) processing and testing methods. It will prepare individuals for employment by teaching them to utilize the latest technologies in composite processing and testing.

Coursework in the 68 SHC program includes the processing and design of composite structures and composite materials testing. Processes include compression molding, vacuum assisted transfer molding, and resin transfer molding. Testing includes impact, shear, compression, flexure, and tension tests based on anisotropic (dependent on the direction of the material) theory and stress analysis.

Craven developed the new Composites program in response to the workforce needs at a number of area employers, most notably Fleet Readiness Center East at Cherry Point. Composites are increasingly being used in aircraft, the automotive industry, and watercraft. Sporting goods is another area in which such materials are becoming more prevalent.

■ Admission Criteria

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

■ Student Learning Outcomes

Graduates of this program will be able to:

- Demonstrate and identify layup process, vacuum bag schedules, and equipment operation involved in the manufacturing of various composite material combinations.
- Be able to fabricate, repair and fasten composites structures as per blueprint specifications.
- Be able to test composites structures to meet specifications using specialized test equipment.

■ Career Opportunities

Graduates should qualify for employment as

- lab technicians
- lab testing specialists
- composite manufacturing technicians.

Graduates will be able to advance in the workplace and develop with new cutting-edge technologies.

■ 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

**Chair of Industrial, Transportation
and Service Programs**
(252) 638-4550

Admissions Office
(252) 638-7200

Degrees and Programs

■ MANUFACTURING TECHNOLOGY: Composites (D50320A)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
BPR 111	Blueprint Reading	2
DFT 151	CAD I	3
ISC 112	Industrial Safety	2
MAC 121	Intro to CNC	2
MEC 187	Composite Materials	3
MEC 188	Processing Composites I	3
Spring Semester – Year One		Credits
CIS 111	Basic PC Literacy	2
MAC 114	Introduction to Metrology	2
MEC 145	Manufacturing Materials I	3
MEC 110	Intro to CAD/CAM	2
MEC 180	Engineering Materials	3
MEC 189	Processing Composites II	3
Summer Semester – Year One		
ENG 111	Writing and Inquiry	3
MAT 121	Algebra/Trigonometry I	3
Total Credits		38

■ MANUFACTURING TECHNOLOGY: Composites Certificate (C50320AA)

Certificate Awarded

RECOMMENDED COURSE SEQUENCE

	Credits
MEC 188 Processing Composites I	3
MEC 189 Processing Composites II	3
MEC 212 Composite Material Test	3
MEC 215 Design of Composite Struc	3
Total Credits	12

■ MANUFACTURING TECHNOLOGY: Composite Journeyman Certificate (C50320AB)

Certificate Awarded

RECOMMENDED COURSE SEQUENCE

	Credits
MEC 187 Composite Materials	3
MEC 188 Processing Composites I	3
MEC 180 Engineering Materials	3
MEC 189 Processing Composites II	3
Total Credits	12

■ MANUFACTURING TECHNOLOGY: Composite Quality Assurance Certificate (C50320AC)

Certificate Awarded

RECOMMENDED COURSE SEQUENCE

	Credits
ISC 132 Mfg Quality Control	3
MEC 212 Composites Materials Test	3
MEC 215 Design of Composite Structure	3
PLA 110 Introduction to Plastics	2
PLA 162 Plastics Manufacturing Processes	3

Total Credits 14

Degrees and Programs

■ MEDICAL ASSISTING (A45400)

Degree Awarded: Associate Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
MED 110	Orientation to Medical Assisting	1
BIO 163	Basic Anatomy and Physiology	5
CIS 111	Basic PC Literacy	2
MED 118	Medical Law and Ethics	2
MED 121	Medical Terminology I	3
MED 130	Administrative Office Procedures I	2
MED 150	Laboratory Procedures I	5
Spring Semester – Year One		Credits
ENG 111	Writing and Inquiry	3
MAT 110	Measurement and Literacy	3
MED 122	Medical Terminology II	3
MED 131	Administrative Office Procedures II	2
MED 140	Exam Room Procedures I	5
MED 182	CPR First Aid and Emergency	2
Summer Semester- Year Two		Credits
MED 260	MED Clinical Practicum	5
MED 262	Clinical Perspectives	1
MED 264	Medical Assisting Overview	2
Fall Semester- Year Two		Credits
ENG 112	Writing/Research in the Disciplines	3
MED 232	Medical Insurance Coding	2
MED 274	Diet Therapy/Nutrition	3
PSY 150	General Psychology	3
_____	Humanities/ Fine Arts	3
Spring Semester- Year Two		Credits
HIT 218	Management Principles in HIT	3
MED 136	Preventive Health	2
MED 270	Symptomatology	3
MED 272	Drug Therapy	3
MED 276	Patient Education	2

Total Credits 73

See advising sheet.

■ Medical Assisting (D45400)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
BIO 163	Basic Anatomy and Physiology	5
CIS 111	Basic PC Literacy	2
MED 110	Orientation to Medical Assisting	1
MED 118	Medical Law and Ethics	2
MED 121	Medical Terminology I	3
MED 130	Administrative Office Procedures I	2
MED 150	Laboratory Procedures I	5
Spring Semester – Year One		Credits
ENG 111	Writing and Inquiry	3
MAT 110	Math Measurement and Literacy	3
MED 122	Medical Terminology II	3
MED 131	Administrative Office Procedures II	2
MED 140	Exam Room Procedures I	5
MED 182	CPR First Aid and Emergency	2
Summer Semester- Year Two		Credits
MED 260	MED Clinical Practicum	5
MED 262	Clinical Perspectives	1
MED 264	Medical Assisting Overview	2

Total Credits 46

■ Program Description

The Medical Assisting curriculum prepares 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 73 SHC program includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, medical transcription, and computer operations. Students also learn to assist with examinations and treatments within the clinical setting, perform routine laboratory procedures and electrocardiography, and administer medication under supervision. Medical Assisting focuses on ethical and legal issues associated with patient care.

The 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.

■ Admission Criteria

Selective admission into 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 the Medical Assisting program requires that students be high school graduates or have recognized equivalencies. Students must have a cumulative GPA of 2.5 and have completed DMA 010 through DMA 050 or MAT 070 and DRE 096 through DRE 098 courses or ENG 095 or RED 090 or ENG 090, if indicated by the college placement test, to be eligible for program admission. Additional requirements for the practicum apply, and students must see the Medical Assisting advisor for further details.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Perform administrative, clinical and laboratory procedures in keeping with the ever growing needs of the local medical community.
- Meet the ethical and legal responsibilities involved with patient care.
- Demonstrate competency in exam room procedures.
- Manage the economics of the medical office, incorporating supervisory experience.

■ Career Opportunities

Employment opportunities are available in

- physicians' offices
- health maintenance organizations
- health departments
- hospitals.

■ Contact Information

Medical Assisting Program Coordinator
(252) 638-1031

Health Programs Admissions Office
(252) 639-2025

Degrees and Programs

■ MEDICAL SCRIBE – POST-DIPLOMA (C45400)

Certificate Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
MED 134	Medical Transcription	3
MED 232	Medical Insurance Coding	2

Spring Semester – Year One		Credits
MED 183	Electronic Medical Records	5

Other Major Hours		Credits
(Choose 5 credits from the following list)		
MED 136	Preventive Health	2
MED 270	Symptomatology	3
MED 274	Diet Therapy/Nutrition	3
MED 276	Patient Education	2
Total Credits		15

■ Program Description

The Medical Scribe curriculum prepares multi-skilled health care professionals qualified to perform all the clerical and information technology functions for a medical provider in a clinic setting. The primary goal is to increase the efficiency and productivity of the provider by entering medical documentation into the electronic health records. This allows the medical provider to focus on what is most important, the patient.

The Medical Scribe must also be able to anticipate the provider's needs to facilitate the flow of the clinic. The scribe must be discreet, tactful and modest in performance of duties so as not to distract medical staff from patient care. Good judgment, organizational ability, initiative, attention to detail and the ability to be self-motivated are especially important when working as a Medical Scribe.

The certificate will consist of five courses for a total of 15 semester hours. Upon completion of these five courses, students will only have 7 additional courses remaining to also graduate with an associate in applied science degree in Medical Assisting.

■ Admission Criteria

Admission to the Medical Scribe Certificate requires that students provide documentation of diploma completion from a CAAHEP approved Medical Assisting Diploma program. Students would be required to meet the general admission requirements for Craven Community College. Students may complete this post-diploma certificate program without Medical Assisting Associate degree program acceptance.

■ Student Learning Outcomes

Graduates of this program will be able to:

- Accurately and thoroughly document medical visits and procedures as they are being performed by the medical provider.
- Perform dictation, faxing, clerical tasks and phone calls and clerical tasks.
- Spot mistakes or inconsistencies in medical documentation and correct the information in order to reduce errors.
- Collect, organize and catalog data for physician-quality reporting system. and other quality improvement efforts and format for submission.
- Proofread and edit all the physician's medical documents for accuracy, spelling, punctuation, and grammar.
- Ensure that all clinical data, lab or other test results, and the interpretation of the results by the physician are recorded accurately in the medical record.
- Alert physician when chart is incomplete.
- Comply with specific standards that apply to the style of medical records, the legal and ethical requirements for preparing medical documents, and for keeping patient information confidential.

■ Career Opportunities

Employment opportunities are available in

- physicians' offices
- health maintenance organizations
- health departments
- hospitals.

■ Contact Information

Medical Assisting Program Coordinator
(252) 638-1031

Allied Health Programs Admission Coordinator
(252) 639-2025

Degrees and Programs

■ MEDICAL OFFICE ADMINISTRATION (A25310)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
CIS 110	Introduction to Computers, or	3
CIS 111	Basic PC Literacy	2
MED 121	Medical Terminology I	3
OST 148	Medical Coding, Billing and Insurance	3
OST 149	Medical Legal Issues	3
OST 181	Introduction to Office Systems	3

Spring Semester – Year One Credits

BIO 163	Basic Anatomy and Physiology	5
ENG 111	Writing and Inquiry	3
MED 122	Medical Terminology II	3
OST 131	Keyboarding	2

Summer Semester – Year One Credits

ENG 114	Professional Research and Reporting	3
_____	Humanities/Fine Arts Elective	3

Fall Semester – Year Two Credits

OST 134	Text Entry and Formatting	3
OST 164	Text Editing Applications	3
OST 184	Records Management	3
OST 243	Medical Office Simulation	3
OST 248	Diagnostic Coding	2
PSY 150	General Psychology	3

Spring Semester – Year Two Credits

BUS 135	Principles of Supervision	3
MKT 223	Customer Service	3
OST 241	Medical Office Transcription I	2
OST 247	CPT Coding in the Medical Office	2
OST 281	Emerging Issues in Medical Offices	2
_____	MOA Major Elective	3

Total Credits 66-67

Medical Office Administration AAS Major Elective courses – 3 hours required

		Credits
ACC 120	Principles of Financial Acct	4
BUS 153	Human Resource Management	3
CTS 130	Spreadsheet	3
DBA 110	Database Concepts	3
OST 136	Word Processing	3

■ MEDICAL OFFICE ADMINISTRATION (D25310)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
CIS 110	Introduction to Computers, or	3
CIS 111	Basic PC Literacy	2
MED 121	Medical Terminology I	3
OST 148	Medical Coding, Billing and Insurance	3
OST 149	Medical Legal Issues	3
OST 181	Introduction to Office Systems	3

Spring Semester – Year One Credits

BIO 163	Basic Anatomy and Physiology	5
ENG 111	Writing and Inquiry	3
MED 122	Medical Terminology II	3
OST 131	Keyboarding	2

Fall Semester – Year Two Credits

OST 134	Text Entry and Formatting	3
OST 164	Text Editing Applications	3
OST 184	Records Management	3
OST 243	Medical Office Simulation	3
OST 248	Diagnostic Coding	2

Total Credits 41-42

■ Program Description

Craven's Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices. Emphasis is placed on developing office skills and knowledge of medical terms.

In the program, students learn to provide office support to medical facilities including records management, medical report production, patient interface, insurance and billing responsibilities, telephone interaction, and confidentiality. Coursework in the 66-67 SHC program includes medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

The curriculum includes study in written communications, first aid, psychology, and humanities/fine arts.

■ Career Opportunities

Employment opportunities include

- medical offices
- dental offices
- hospitals
- insurance companies
- laboratories
- medical supply companies
- other health-care related organizations.

■ Contact Information

HIT/MOA Program Coordinator
(252) 638-7316

Health Programs Admissions Office
(252) 639-2025

■ Admission Criteria

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

■ Student 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 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.

Degrees and Programs

■ MEDICAL OFFICE ADMINISTRATION – Billing/Scheduling (C25310)

Certificate Awarded

Course		Credits
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3
OST 148	Medical Coding, Billing and Insurance	3
OST 149	Medical Legal Issues	3
OST 184	Records Management	3
OST 243	Medical Office Simulation	3
Total Credits		18

■ MEDICAL OFFICE ADMINISTRATION – Coding (C25310C)

Certificate Awarded

Course		Credits
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3
OST 148	Medical Coding, Billing and Insurance	3
OST 149	Medical Legal Issues	3
OST 247	Procedure Coding	2
OST 248	Diagnostic Coding	2
Total Credits		16

■ MEDICAL OFFICE ADMINISTRATION – Medical Office Receptionist (C25310E)*

Certificate Awarded

Course		Credits
CIS 111	Basic PC Literacy	2
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3
OST 148	Medical Coding, Billing and Insurance	3
OST 131	Keyboarding	2
OST 181	Introduction to Office Systems	3
Total Credits		16

*An approved High School *Career and College*
Promise Career-Technical Education Pathway

Degrees and Programs

■ NURSING (A45110)

Degree Awarded: Associate in Applied Science

Fall Entry

REQUIRED COURSE SEQUENCE

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
BIO 168	Anatomy and Physiology I	4
ENG 111	Writing and Inquiry	3
NUR 111	Introduction to Health Concepts	8
PSY 150	General Psychology	3
Spring Semester – Year One		Credits
BIO 169	Anatomy and Physiology II	4
NUR 112	Health-Illness Concepts, and	5
NUR 114	Holistic Health Concepts, or	5
NUR 214	Transition Concepts (LPN to RN)	4
PSY 241	Developmental Psychology	3
Fall Semester – Year Two		Credits
NUR 113	Family Health Concepts	5
NUR 211	Health Care Concepts	5
NUR 212	Health System Concepts	5
Spring Semester – Year Two		Credits
ENG 112	Writing/Research in the Disciplines	3
NUR 213	Complex Health Concepts	10
_____	Humanities/ Fine Arts	3
Total Credits		67

See advising sheet.

■ Program Description

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

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

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

■ Admission Criteria

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 Associate Degree Nursing Handbook or Practical Nursing Handbook for admission, progression and graduation requirements.** See section entitled Admissions, Tuition, and Fees regarding general college admission procedures. Also in this section, see heading entitled “Limited Admission Program (Nursing Admission)” for more information about deadlines and processes for admission. The following are a few special requirements for admission to the nursing program.

- Students must complete all developmental courses, DMA 010 through DMA 050 and DRE 096 through DRE 098, if indicated by the college placement test. Students must also complete chemistry at the high school level or above with a “C” or higher. Students must complete an approved computer course, within the past 5 years, at high school level or above with a “C” or higher.
- 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. If a nursing student is not successful in a general education support course during the semester of the plan of study, the student may not progress, and that course must be successfully repeated for re-entry. NUR courses have a minimum requirement of “B.”
- Students must have an overall GPA of at least 2.5. GPA is not rounded.
- Advanced standing (transition) students are given credit for NUR 111, NUR 112 and

NUR 114 if they have their LPN license in North Carolina and have successfully completed NUR 214 and meet all admission criteria. They enroll in the third semester of the program if space is available.

- **Physical Examination:** The necessary form will be provided by the College. This examination must be completed within 30 days prior to enrollment and will be reviewed by the nursing faculty. Immunizations are required of nursing students. This procedure may be hazardous in the event of pregnancy. A doctor should be consulted if the immunization is necessary.
- Prior to the student's participation in the clinical component of the nursing programs, the primary clinical site requires a criminal background check for all states of residence. The clinical sites may require drug testing. At the time of this catalog preparation, the primary clinical site is requesting a statewide criminal background check for the past seven years. 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.
- Persons interested in Health Care Programs should contact Student Services for the most current information.

■ Student 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.
- Take and pass the NCLEX exam.

■ Career Opportunities

Employment opportunities include:

- hospitals
- long-term care facilities
- clinics
- physicians' offices
- industry
- community agencies.

■ 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 BSN (Bachelor of Science in Nursing) degree with East Carolina University.

■ Contact Information

**Chair of Nursing and Continuing
Education Programs**
(252) 638-7341
Health Programs Admissions Office
(252) 639-2025

Degrees and Programs

■ PRACTICAL NURSING (D45660)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
BIO 163	Basic Anatomy and Physiology	5
NUR 101	Practical Nursing I	11
PSY 150	General Psychology	3
Spring Semester – Year One		Credits
ENG 111	Writing and Inquiry	3
NUR 102	Practical Nursing II	12
PSY 241	Developmental Psychology	3
Summer Semester – Year One		Credits
NUR 103	Practical Nursing III	10
Total Credits		48

■ 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).

According to the Occupational Outlook Handbook, LPNs provide direct care for people who are sick, injured, convalescent, or disabled. Often, they provide basic bedside care. Many LPNs measure and record vital signs such as height, weight, temperature, blood pressure, pulse, and respiration. They also prepare and give injections and enemas, monitor catheters, dress wounds. While LPNs work under the direction of Registered Nurses and physicians, experienced LPNs may supervise nursing assistants and aides.

Graduates of this program 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

Nursing is a selective admission program. See section entitled Admissions, Tuition, and Fees regarding general college admission procedures. Also in this section, see heading entitled "Limited Admission Program (Nursing Admission)" for more information about deadlines and processes for admission. The following are a few special requirements for entry to the nursing program.

- Students must complete all developmental courses, DMA 010 through DMA 050 and DRE 096 through DRE 098, if indicated by the college placement test. Students must also complete Chemistry at the high school level or above with a C or higher and an approved computer course (high school or college), within the past 5 years, with a grade of C or higher.
- Physical Examination: The necessary form will be provided by the College. This examination must be completed within 30 days prior to enrollment and will be reviewed by the nursing faculty. Immunization are required of nursing students. This procedure may be hazardous in the event of pregnancy. A doctor should be consulted if the immunization is necessary.
- Prior to the student's participation in the clinical component of the nursing programs, the primary clinical site requires a criminal background check for all states of residence. The clinical sites may require drug testing. At the time of this catalog preparation, the primary clinical site is requesting a statewide criminal background check for the past seven years. 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 progression within the program.
- Persons interested in Health Care Programs should contact Student Services for the most current information.

■ Student 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.
- Participate in the integration of knowledge of the holistic needs of the individual to provide an individualized assessment.
- Incorporate informatics to mitigate error.
- Provide safe, caring interventions incorporating documented best practices for individuals.
- Participate in the development and provision of a teaching plan for individuals and/or the nursing team.
- 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.
- Participate in implementing the healthcare plan developed by the registered nurse and/or prescribing by any person authorized by NC State law to prescribe such a plan.
- Plan care for the individual using cost effective nursing strategies, critical thinking skills, nursing and quality improvement processes and current technologies.
- Take and pass the NCLEX 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 are given credit for NUR 111, NUR 112 and NUR 114 if they have their LPN license and have successfully completed NUR 214 as part of the admission criteria. They enroll in the third semester of the Associate Degree Nursing program if space is available. Admission criteria must be met.

■ Contact Information

**Chair of Nursing and Continuing
Education Programs**
(252) 638-7341

Health Programs Admissions Office
(252) 639-2025

Degrees and Programs

■ PHARMACY TECHNOLOGY (D45580)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
CIS 113	Computer Basics	1
ENG 111	Writing and Inquiry	3
BIO 163	Basic Anatomy and Physiology	5
PHM 110	Introduction to Pharmacy	3
PHM 111	Pharmacy Practice I	4
PHM 115	Pharmacy Calculations	3
PHM 120	Pharmacology I	3
Spring Semester – Year One		Credits
PHM 118	Sterile Products	4
PHM 125	Pharmacology II	3
PHM 132	Pharmacy Clinical	2
PHM 140	Trends in Pharmacy	2
Summer Semester – Year One		Credits
PHM 135	Pharmacy Clinical	5
PHM 165	Pharmacy Prof Practice	2
Total Credits		40

■ Program Description

The Pharmacy Technology program prepares students to become pharmacy technicians. These allied health professionals are employed in a variety of pharmacy practice settings, including retail pharmacies and hospitals. Supervised by a registered pharmacist, they perform a variety of technical duties related to preparing and dispensing drugs in accordance with standard procedures and laws.

Pharmacy technicians are trained to interpret physicians' medication orders, fill orders to be checked by pharmacists, and deliver the orders. They prepare admixtures of intravenous solutions, replenish drugs, maintain patient profile records, prepare bulk formulations, assist with over-the-counter drugs and health aids, and perform clerical duties, including processing insurance forms required by third-party payers. Pharmacy technicians are vital assets to pharmacists because their training allows them to perform technical pharmaceutical procedures, thus enabling pharmacists to devote additional time to their professional tasks.

Craven Community College's Pharmacy Technology program is accredited by the American Society of Health-System Pharmacists.

Graduates of the Pharmacy Technology program are eligible to take the Pharmacy Technician Certification Exam.

■ Admission Criteria

Pharmacy Technology is a selective admissions program. Selective admission into D45580 (Diploma in Pharmacy Technology) requires adherence to the program of study by successfully completing all courses as outlined for progression throughout the curriculum. Please refer to the Diploma in Pharmacy Technology Handbook for admission, progression and graduation requirements.

The following are a few of the special requirements for entry to the Pharmacy Technology program.

- Submit a Pharmacy Technology Application by the designated deadline;
- Have completed DRE 095 through DRE 098 or ENG 095 or RED 090 or ENG 090;
- Have completed DMA 010 through DMA 050 or MAT 070;
- Have completed a high school or college/university level chemistry class with a grade of "C: or higher;
****If you have not completed a High School or college chemistry course with a grade of "C" or higher, we will substitute the Craven Community College Pharmacy Technician Workforce Development course.*
- Have a cumulative GPA of 2.0 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 GPA. If you have attended multiple colleges/universities, and have less than 12 semester hours at Craven CC, we will combine all GPA's 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 2.0 or higher. If you completed a GED, and have less than 12 semester hours of college work, you must have scored 2250.



■ Student Learning Outcomes

Graduates of this program will be able to:

- Apply knowledge gained in the use and side effects of medications.
- Perform the necessary steps to prepare a prescription for dispensing according to the ASHP performance standards.
- Compound sterile products using appropriate techniques, equipment, and devices according to USP 797 standards.
- Demonstrate ethical conduct and maintain an image appropriate for the profession of pharmacy.

■ Career Opportunities

Employment opportunities include:

- Hospitals
- nursing homes
- retail drug stores
- drug manufacturers
- research laboratories
- wholesale drug companies.

■ Contact Information

Pharmacy Technology Program Coordinator
(252) 639-2026

Health Programs Admissions Office
(252) 639-2025

Degrees and Programs

■ PHYSICAL THERAPIST ASSISTANT (A45620)

Degree Awarded: Associate in Applied Science

RECOMMENDED COURSE SEQUENCE

Spring Semester – Year One Credits

BIO 168	Anatomy and Physiology I	4
COM 120	Intro to Interpersonal Communication	3
ENG 111	Writing and Inquiry	3
HUM 115	Critical Thinking	3
MAT 110	Measurement and Literacy	3

Fall Semester – Year One Credits

BIO 169	Anatomy and Physiology II	4
PTA 110	Intro to Physical Therapy	3
PTA 130	Physical Therapy Proc I	3
PTA 170	Pathophysiology	3
PTA 212	Health Care/Resources	2

Spring Semester – Year Two Credits

PTA 120	Functional Anatomy	3
PTA 140	Therapeutic Exercise	4
PTA 150	Physical Therapy Proc II	3
PTA 182	PTA Clinical Ed I*	2

Fall Semester – Year Two Credits

CIS 113	Computer Basics	1
PSY 150	General Psychology	3
PTA 160	Physical Therapy Proc III	3
PTA 210	PTA Clinical Ed II*	2
PTA 240	Physical Therapy Proc IV	5

Spring Semester – Year Three Credits

PTA 220	PTA Clinical Ed III*	8
PTA 222	Professional Interactions	2
PTA 252	Geriatrics for the PTA	2
PTA 254	Pediatrics for the PTA	1

*Clinical Education follows completion of seated courses in the same semester

Total Credits 70

■ Program Description

A Physical Therapist Assistant (PTA) is a health-care 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.

■ Student 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. In order to be eligible for admission, students must:

- Submit a Physical Therapist Assisting Application by the designated deadline;
- Have completed DMA 010 through DMA 050 or MAT 070 and DRE 096 through DRE 098 or ENG 095 or RED 090 or ENG 090 courses, if indicated by the college placement test, to be eligible for program admission;
- 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 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 2400 or higher;
- Take the TEAS (Test of Essential Academic Skills) admission exam;
- Complete required 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
- Private Practice
- Schools

■ Contact Information

PTA Program Coordinator
(252) 638-7227

Health Programs Admissions Office
(252) 639-2025

Degrees and Programs

■ WELDING TECHNOLOGY (A50420)

Degree Awarded: Associate Applied Science

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One Credits

ACA 111	College Student Success	1
BPR 111	Blueprint Reading	2
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 Credits

MEC 111	Machine Processes I	3
WLD 116	SMAW (Stick) Plate/Pipe	4
WLD 122	GMAW (MIG) Plate/Pipe	3
WLD 131	GTAW (TIG) Plate	4
WLD 141	Symbols and Specifications	3

Summer Semester – Year One Credits

ENG 114	Professional Research and Reporting	3
MAT 110	Math Measurement and Literacy	3

Fall Semester – Year Two Credits

DFT 152	CAD II	3
MEC 142	Physical Metallurgy	2
WLD 132	GTAW (TIG) Plate/Pipe	3
WLD 151	Fabrication I	4
WLD 261	Certification Practices	2

Spring Semester – Year Two Credits

CIS 113	Computer Basics	1
ISC 112	Industrial Safety	2
HUM 110	Technology and Society	3
WLD 221	GMAW (MIG) Pipe	3
WLD 231	GTAW (TIG) Pipe	3
———	Welding Technology: Major Elective	3
	Total Credits	69

Welding Technology: Composite Major Elective courses – 3 hours required

		Credits
BUS 110	Introduction to Business	3
WBL 110	World of Work	1
WBL 111	Work-Based Learning I (10 hr work)	1
WBL 112	Work-Based Learning I (20 hr work)	2
WBL 113	Work-Based Learning I (30 hr work)	3
WBL 121	Work-Based Learning II (10 hr work)	1
WBL 122	Work-Based Learning II (20 hr work)	2
WBL 131	Work-Based Learning III (10 hr work)	1
WLD 251	Fabrication II	3

■ 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 69 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.

■ 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

**Chair of Industrial, Transportation
and Service Programs**
(252) 638-4550

Admissions Office
(252) 638-7200

■ Student Learning Outcomes

Graduates of this program will be able to:

- Maintain safety while working in the welding and cutting fields.
- Join metals using various welding processes at different positions.
- Read prints and interpret welding symbols.
- Determine the quality of welds.
- Demonstrate the knowledge, setup and correct operation of commonly used welding equipment.
- Demonstrate metal fabrication skills.

Degrees and Programs

■ WELDING TECHNOLOGY (D50420)

Diploma Awarded

RECOMMENDED COURSE SEQUENCE

Fall Semester – Year One		Credits
ACA 111	College Student Success	1
BPR 111	Blueprint Reading	2
CIS 111	Basic PC Literacy	2
DFT 152	CAD II	3
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
Spring Semester – Year One		Credits
BPR 121	Blueprint Reading-Mechanical	2
MEC 111	Machine Processes I	3
WLD 116	SMAW (Stick) Plate/Pipe	4
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 131	GTAW (TIG) Plate	4
Summer Semester – Year One		Credits
ENG 111	Writing and Inquiry	3
MAT 110	Math Measurement and Literacy	3
Fall Semester – Year Two		Credits
WLD 141	Symbols and Specifications	3
WLD 261	Certification Practices	2
Total Credits		43

■ WELDING TECHNOLOGY – ENTRY LEVEL WELDING (C50420A)*

Certificate Awarded

Course		Credits
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 131	GTAW (TIG) Plate	4
WLD 141	Symbols and Specifications	3
Total Credits		18

■ WELDING TECHNOLOGY – HANDYMAN WELDING (C50420C)

Certificate Awarded

Course		Credits
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
WLD 116	SMAW (Stick) Plate/Pipe	4
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 141	Symbols and Specifications	3
Total Credits		18

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■ General Education course electives for AAS Programs:

Humanities/Fine Arts Electives

ART 111	Art Appreciation
ART 114	Art History Survey I
ART 115	Art History Survey II
ENG 231	American Literature I
ENG 232	American Literature II
ENG 243	Major British Writers
HUM 110	Technology and Society
HUM 115	Critical Thinking
HUM 211	Humanities I
HUM 212	Humanities II
MUS 110	Music Appreciation
MUS 112	Introduction to Jazz
MUS 113	American Music
PHI 215	Philosophical Issues
PHI 240	Introduction to Ethics
REL 110	World Religions

Economics Electives

ECO 251	Principles of Microeconomics
ECO 252	Principles of Macroeconomics

Social/Behavioral Sciences List 1

ANT 210	General Anthropology
ANT 221	Comparative Cultures
ANT 240	Archaeology
GEO 111	World Regional Geography
HIS 111	World Civilizations I
HIS 112	World Civilizations II
HIS 121	Western Civilization I
HIS 122	Western Civilization II
HIS 131	American History I
HIS 132	American History II
POL 120	American Government
PSY 150	General Psychology
PSY 237	Social Psychology
PSY 241	Developmental Psychology
PSY 281	Abnormal Psychology
SOC 210	Introduction to Sociology
SOC 213	Sociology of the Family
SOC 220	Social Problems

Social/Behavioral Sciences List 2

POL 120	American Government
PSY 150	Introduction to Psychology
SOC 210	Introduction to Sociology
SOC 213	Sociology of the Family

Degrees and Programs

■ Elective courses for Associate in Fine Art Programs:

AFA - Art Level I Courses

ART 131	Drawing I
ART 135	Figure Drawing I
ART 171	Computer Art I
ART 240	Painting I
ART 281	Sculpture I
ART 283	Ceramics I
ART 288	Studio

AFA - Art Level II Courses

ART 132	Drawing II
ART 241	Painting II
ART 271	Computer Art II
ART 282	Sculpture II
ART 284	Ceramics II
ARI 241	Preparation

AFA – Music Courses

MUS 110	Music Appreciation
MUS 112	Introduction to Jazz
MUS 113	American Music
MUS 122	Music Theory II
MUS 123	Music Composition
MUS 131	Chorus I
MUS 132	Chorus II
MUS 141	Ensemble I
MUS 142	Ensemble II
MUS 181	Show Choir I
MUS 182	Show Choir II
MUS 231	Chorus III
MUS 232	Chorus IV
MUS 251	Class Music III
MUS 252	Class Music IV
MUS 262	Applied Music IV
MUS 281	Show Choir III
MUS 282	Show Choir IV

■ Elective courses for Associate in Art and Associate in Science Degrees:

Used in other required hours

Humanities/Fine Arts Electives

ART 121	Two-Dimensional Design
ART 122	Three-Dimensional Design
ART 131	Drawing I
ART 132	Drawing II
ART 135	Figure Drawing I
ART 171	Computer Art I
ART 214	Portfolio and Resumé
ART 240	Painting I
ART 241	Painting II
ART 264	Digital Photography I
ART 265	Digital Photography II
ART 271	Computer Art II
ART 281	Sculpture I
ART 282	Sculpture II
ART 283	Ceramics I
ART 284	Ceramics II
ART 288	Studio

COM 111	Voice and Diction I
COM 130	Intro to Nonverbal Communications

ENG 125	Creative Writing I
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FRE 181	French Lab 1
FRE 182	French Lab 2
GER 181	German Lab 1
GER 182	German Lab 2
ITA 181	Italian Lab 1
ITA 182	Italian Lab

MUS 111	Fundamentals of Music
MUS 121	Music Theory I
MUS 122	Music Theory II
MUS 123	Music Composition
MUS 131	Chorus I
MUS 132	Chorus II

MUS 141	Ensemble I
MUS 142	Ensemble II
MUS 151	Class Music I
MUS 152	Class Music II
MUS 161	Applied Music I
MUS 162	Applied Music II
MUS 181	Show Choir I
MUS 182	Show Choir II
MUS 231	Chorus III
MUS 232	Chorus IV
MUS 251	Class Music III
MUS 252	Class Music IV
MUS 261	Applied Music III
MUS 262	Applied Music IV
MUS 281	Show Choir III
MUS 282	Show Choir IV

SPA 181	Spanish Lab 1
SPA 182	Spanish Lab 2

Mathematics/Computer Science Electives

CSC 134	C++ Programming
CSC 139	Visual BASIC Programming
CSC 151	JAVA Programming
CSC 239	Advanced Visual BASIC
MAT 280	Linear Algebra
MAT 285	Differential Equations

Natural Sciences Electives

BIO 155	Nutrition
BIO 163	Basic Anatomy and Physiology
BIO 168	Anatomy and Physiology I
BIO 169	Anatomy and Physiology II
BIO 275	Microbiology
BIO 280	Biotechnology
CHM 251	Organic Chemistry I
CHM 252	Organic Chemistry II

Degrees and Programs

Social/Behavioral Sciences Electives

ANT 240A Archaeology Field Lab

Additional Transfer Electives

ACA 122	College Transfer Success
ACC 120	Principles of Financial Acct
ACC 121	Principles of Managerial Acct
BUS 110	Introduction to Business
BUS 115	Business Law I
BUS 137	Principles of Management
CIS 110	Introduction to Computers
CJC 111	Intro to Criminal Justice
CJC 121	Law Enforcement Ops.
CJC 141	Corrections
CTS 115	Introduction System Business Concepts
DFT 170	Engineering Graphics
EDU 216	Foundations in Education
EGR 150	Intro to Engineering
EGR 220	Engineering Statistics
HEA 110	Personal Health and Wellness
PED 110	Fit and Well for Life
PED 117	Weight Training I
PED 118	Weight Training II
PED 120	Walking for Fitness

■ ASSOCIATE IN ARTS DEGREE (AA) UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (UGETC)

English Composition

- ENG 111 Writing and Inquiry
ENG 112 Writing/Research in the Disciplines

Humanities/Fine Arts

- ART 111 Art Appreciation
ART 114 Art History Survey I
ART 115 Art History Survey II
COM 231 Public Speaking
ENG 231 American Literature I
ENG 232 American Literature II
MUS 110 Music Appreciation
MUS 112 Introduction to Jazz
PHI 215 Philosophical Issues
PHI 240 Intro to Ethics

Social/Behavioral Sciences

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

Mathematics

- MAT 143 Quantitative Literacy
Craven Community College uses
MAT 143 in the Other General
Education Hours of the AA
MAT 152 Statistical Methods I
MAT 171 Precalculus Algebra

Natural Sciences

- AST 111 Descriptive Astronomy and
AST 111A Descriptive Astronomy Lab
BIO 110 Principles of Biology
BIO 111 General Biology I
CHM 151 General Chemistry I
GEL 111 Introductory Geology
PHY 110 Conceptual Physics and
PHY 110A Conceptual Physics Lab

Degrees and Programs

■ ASSOCIATE IN SCIENCE DEGREE (AS) UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (UGETC)

English Composition

ENG 111 Writing and Inquiry
ENG 112 Writing/Research in the Disciplines

Humanities/Fine Arts

ART 111 Art Appreciation
ART 114 Art History Survey I
ART 115 Art History Survey II
COM 231 Public Speaking
ENG 231 American Literature I
ENG 232 American Literature II
MUS 110 Music Appreciation
MUS 112 Introduction to Jazz
PHI 215 Philosophical Issues
PHI 240 Intro to Ethics

Social/Behavioral Sciences

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

Mathematics

MAT 171 Precalculus Algebra
MAT 172 Precalculus Trigonometry
MAT 263 Brief Calculus
MAT 271 Calculus I
Students beginning with MAT 271 may use MAT 272 as the second math

Natural Sciences

BIO 110 Principles of Biology
BIO 111 General Biology I and
BIO 112 General Biology II
CHM 151 General Chemistry I and
CHM 152 General Chemistry II
GEL 111 Introductory Geology
PHY 110 Conceptual Physics and
PHY 110A Conceptual Physics Lab
PHY 151 College Physics I and
PHY 152 College Physics II
PHY 251 General Physics I and
PHY 252 General Physics II

■ ADDITIONAL GENERAL EDUCATION COURSES:

Humanities/Fine Arts AA/AS

COM 110	Intro to Communication
COM 120	Interpersonal Communication
COM 140	Intro to Intercultural Communication
DRA 122	Oral Interpretation
ENG 114	Professional Research and Reporting
ENG 243	Major British Writers
ENG 261	World Literature I
ENG 262	World Literature II
FRE 111*	Elementary French I
FRE 112**	Elementary French II
FRE 211	Intermediate French I
GER 111*	Elementary German I
GER 112**	Elementary German II
GER 211	Intermediate German I
HUM 110	Technology and Society
HUM 115	Critical Thinking
HUM 120	Cultural Studies
HUM 160	Introduction to Film
HUM 211	Humanities I
HUM 212	Humanities II
ITA 111*	Elementary Italian I
ITA 112**	Elementary Italian II
ITA 211	Intermediate Italian I
MUS 113	American Music
REL 110	World Religions
REL 211	Intro to the Old Testament
REL 212	Intro to the New Testament
SPA 111*	Elementary Spanish I
SPA 112**	Elementary Spanish II
SPA 211	Intermediate Spanish I

*Corequisite: FRE 181, French Lab 1; GER 181, German Lab 1; ITA 181, Italian Lab 1; SPA 181, Spanish Lab 1

**Corequisite: FRE 182, French Lab 2; GER 182, German Lab 2; ITA 182, Italian Lab 2; SPA 182, Spanish Lab 2

Social/Behavioral Sciences AA/AS

ANT 210	General Anthropology
ANT 221	Comparative Cultures
ANT 240	Archaeology
GEO 111	World Regional Geography
HIS 121	Western Civilization I
HIS 122	Western Civilization II
PSY 237	Social Psychology
PSY 239	Psychology of Personality
PSY 241	Developmental Psychology
PSY 281	Abnormal Psychology
SOC 213	Sociology of the Family
SOC 220	Social Problems
SOC 225	Social Diversity

Mathematics

For Associate in Arts degree

CIS 115	Intro to Programming & Logic
MAT 143	Quantitative Literacy
MAT 152*	Statistical Methods I
MAT 171*	Precalculus Algebra
MAT 172	Precalculus Trigonometry
MAT 263	Brief Calculus

*If not used for the UGETC Core

Mathematics

For Associate in Science degree

CIS 115	Intro to Programming & Logic
MAT 143	Quantitative Literacy
MAT 152	Statistical Methods
MAT 263**	Brief Calculus
MAT 271*	Calculus I
MAT 272	Calculus II
MAT 273	Calculus III

*If not used for the UGETC Core

**If have not completed MAT 271

Degrees and Programs

Natural Sciences

For Associate in Art degree

AST 111* Descriptive Astronomy and
AST 111A* Descriptive Astronomy Lab
BIO 110* Principles of Biology
BIO 111* General Biology I
BIO 112 General Biology II
BIO 120 Introductory Botany
BIO 130 Introductory Zoology
BIO 140 Environmental Biology and
BIO 140A Environmental Biology Lab

CHM 131 Intro to Chemistry and
CHM 131A Intro to Chemistry Lab
CHM 132 Organic and Biochemistry
CHM 151 General Chemistry I
CHM 152 General Chemistry II
GEL 111* Introductory Geology
PHY 110* Conceptual Physics and
PHY 110A* Conceptual Physics Lab
PHY 151* College Physics I

*If not used for the UGETC Core

Natural Sciences

For Associate in Science degree

AST 111 Descriptive Astronomy
AST 111A Descriptive Astronomy Lab
BIO 110* Principles of Biology
BIO 111* General Biology I
BIO 112* General Biology II
BIO 120 Introductory Botany
BIO 130 Introductory Zoology
BIO 140 Environmental Biology and
BIO 140A Environmental Biology Lab
CHM 131 Intro to Chemistry and
CHM 131A Intro to Chemistry Lab
CHM 132 Organic and Biochemistry
CHM 151 General Chemistry I
CHM 152 General Chemistry II
GEL 111* Introductory Geology
PHY 110* Conceptual Physics and
PHY 110A* Conceptual Physics Lab
PHY 151* College Physics I
PHY 152* College Physics I
PHY 251* General Physics I
PHY 252* General Physics II

*If not used for the UGETC Core

■ ASSOCIATE IN FINE ARTS DEGREE (AFA):

General Education Core Art or Music

All General Education Core courses are Universal General Education Transfer Component (UGETC) Courses until marked with an asterisk (*). UGETC courses are guaranteed to transfer to any one of the UNC-System universities to meet general education requirements. Other courses on the may transfer as elective credit.

English Composition

- ENG 111 Writing and Inquiry
- ENG 112 Writing/Research in the Disciplines

Humanities/Fine Arts

- ART 111 Art Appreciation
(music concentration only)
- ART 114 Art History Survey I
(music concentration only)
- ART 115 Art History Survey II
(music concentration only)
- COM 231 Public Speaking
- ENG 231 American History I
- ENG 232 American History II
- ENG 243 Major British Writers*
- ENG 261 World Literature I*
- ENG 262 World Literature II*
- MUS 110 Music Appreciation
(art concentration only)
- MUS 112 Introduction to Jazz
(art concentration only)
- PHI 215 Philosophical Issues
- PHI 240 Introduction to Ethics

Social/Behavioral Sciences

- ECO 251 Principles of Microeconomics
- ECO 252 Principles of Macroeconomics
- HIS 111 World Civilizations I
- HIS 112 World Civilizations I
- HIS 121 Western Civilizations I*
- HIS 122 Western Civilizations II*
- HIS 131 American History I
- HIS 132 American History I
- POL 120 American Government
- PSY 150 General Psychology
- SOC 210 Introduction to Sociology

Mathematics

- MAT 143 Quantitative Literacy
- MAT 152 Statistical Methods
- MAT 171 Precalculus Algebra

Natural Sciences

- AST 111 Descriptive Astronomy and
- AST 111A Descriptive Astronomy Lab
- BIO 110 Principles of Biology
- BIO 111 General Biology I
- CHM 151 General Chemistry I
- GEL 111 Introductory Geology
- PHY 110* Conceptual Physics and
- PHY 110A* Conceptual Physics Lab

Other Required Hours: ART

- ACA 122 College Transfer Success
- HEA 110 Personal Health/Wellness or
- PED 110 Fit and Well for Life or
- PED activity classes

Required Art Courses Art

- ART 121 Two-Dimensional Design
- ART 122 Three-Dimensional Design
- ART 131 Drawing I

Two of the following:

- ART 171 Computer Art I
- ART 240 Painting I
- ART 28 Sculpture I

■ Elective Art Courses

AFA- Art Level I Courses

- ART 135 Figure Drawing I
- ART 171 Computer Art I
- ART 240 Painting I

Degrees and Programs

ART 264 Digital Photography I
ART 281 Sculpture I
ART 283 Ceramics I
ART 288 Studio

AFA - Art Level II Courses

ART 132 Drawing II
ART 214 Portfolio and Resume
ART 241 Painting II
ART 265 Digital Photography II
ART 271 Computer Art II
ART 282 Sculpture II
ART 284 Ceramics II

Related Courses Art (up to 5 shc)

Foreign Languages (FL) include FRE, GER, ITA and SPA

FL 111 Elementary ____I and
FL 181 FL Lab 1
FL 112 Elementary ____II and
FL 182 FL Lab 2
FL 211 Intermediate ____ I

ANT 210 General Anthropology
COM 111 Voice and Diction
ENG 125 Creative Writing
ENG literature not used for Gen Ed
HUM 120 Cultural Studies
HUM 211 Humanities I
HUM 212 Humanities II
REL 110 World Religions

Other Required Hours: MUSIC

ACA 122 College Transfer Success
HEA 110 Personal Health/Wellness or
PED 110 Fit and Well for Life or
PED activity classes

Required Music Courses

MUS 110 Music Appreciation
MUS 111 Music Fundamentals
MUS 121 Music Theory I
MUS 151 Class Music I
MUS 152 Class Music II
MUS 161 Applied Music I

MUS 162 Applied Music II
MUS 261 Applied Music III

One of the following:

MUS 112 Introduction to Jazz or
MUS 113 American Music

■ Elective Music Courses

MUS 112 Introduction to Jazz
MUS 113 American Music
MUS 122 Music Theory II
MUS 123 Music Composition
MUS 131 Chorus I
MUS 132 Chorus II
MUS 141 Ensemble I
MUS 142 Ensemble II
MUS 181 Show Choir I
MUS 182 Show Choir II
MUS 231 Chorus III
MUS 232 Chorus IV
MUS 241 Ensemble III
MUS 242 Ensemble IV
MUS 251 Class Music III
MUS 252 Class Music IV
MUS 262 Applied Music IV
MUS 281 Show Choir III
MUS 282 Show Choir IV

Related Courses Music (up to 5 shc)

Foreign Languages (FL) include FRE, GER, ITA and SPA

FL 111 Elementary ____I and
FL 181 FL Lab 1
FL 112 Elementary ____II and
FL 182 FL Lab 2
FL 211 Intermediate ____ I

ANT 210 General Anthropology
BIO 110 Principles of Biology
COM 111 Voice and Diction
DRA 122 Oral Interpretation
HUM 120 Cultural Studies
PSY 150 General Psychology
PSY 241 Developmental Psychology
SOC 210 Introduction to Sociology

■ 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: DRE 097; or ENG 080 and RED 080; or ENG 085 and ENG 085A; 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. This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.					
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. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.					

SPA 111, Elementary Spanish I notes a prerequisite of DRE 097; or ENG 080 and RED 080; or ENG 085 and ENG 085A; or satisfactory reading and writing placement scores. This means that a student must have successfully completed DRE 097; or ENG 080 and RED 080; or ENG 085 and ENG 085A, 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, 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 Descriptions

Course Code	Description	Lecture	Lab	Clinic	Credit
ART 131	Drawing I:	0	6	0	3

Prerequisites: None

Corequisites: None

Fee: \$15

*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 pre-major and/or elective course requirement.***

Note the \$15 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.

■ Work-based Learning

Work-based Learning allows students to gain academic credit through work experience related to the program of study. This plan integrates classroom study with employment and is based on the principle that learning does not confine itself to academic achievement but is equally dependent upon practical experience. The student enrolled in the Work-based Learning Program takes a prescribed program of study for an associate degree program. 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. Evaluation of job performance is made jointly by the employer, the student, and the College instructor. The student's letter grade is based on this evaluation. Work-based Learning is limited to particular programs of study (see Programs of Study). Students must have completed 9 semester hours (6 in the core curriculum), and maintain a Grade Point Average of 2.5. Students should see an advisor for more information about this opportunity.

■ Online Learning

Craven Community College offers a wide variety of distance learning courses each year. Students may take courses which are "hybrid," or "online" in nature. Students may access these courses from home, on campus, or wherever they can obtain internet access. Courses are delivered via the

Moodle Learning Management System.

Delivery Method Definitions

- **Online Course** - An online course is defined as one in which 100% of all face-to-face class meetings are replaced by required instruction completed at a distance and managed online through the Learning Management System. Online courses allow students to take courses from geographically remote locations without the need to come to campus. The tuition for these courses includes a distance learning fee.
- **Hybrid Course** - A hybrid course is defined as one where some but not all instruction is conducted and managed online through the Learning Management System. Time traditionally spent in the classroom is reduced but not eliminated. The goal of hybrid courses is to join the best features of a traditional class with the best features of online learning. Tuition for these courses includes a distance learning fee.

Distance Learning Orientation

Students enrolled in any hybrid or online course are required to complete a Distance Learning Orientation. When a student registers for a hybrid or online course, they will have access to the Distance Learning Student Orientation via the Moodle Learning Management System prior to the start of the semester. Students registering during the early registration period should have access within 7 days of registering for the course. Students registering

during late registration should have access by 8am the following business day. Students are encouraged to complete the orientation prior to the start of the semester. Students will be issued a certificate of completion in PDF format upon successful completion of the orientation. Certificates of completion must be presented to their instructor upon request and are valid for three years from the date of completion.

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

Hardware Requirements

- Windows Vista or later/Mac OS X or later
- 2 GB of RAM minimum

Software Requirements

- Web Browser – FireFox 3.6 or higher (Internet Explorer is not recommended nor supported for use with distance learning courses).
- E-mail – Students are required to use their school issued Gmail account for use with distance learning courses.
- Plug-ins – The most current version of the following plug-ins are required:
 - Adobe Acrobat Reader
 - Adobe Flash Player
 - Apple QuickTime
 - Windows Media Player
 - Java
- Antivirus software – Any current brand (e.g., AVG, 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.

Selecting Courses

Academic, financial and academic 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 advisor and the recommended sequence of courses in the Program Description section of this catalog to determine which courses to take which 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 at www.CravenCC.edu.

Disciplines

Dept. Code

Academic Related.....	ACA
Accounting.....	ACC
Anthropology.....	ANT
Art	ART
Automotive.....	AUT
Aviation Maintenance.....	AVI
Banking and Finance	BAF
Biology.....	BIO
Blueprint Reading	BPR
Business	BUS
Business Analytics.....	BAS
Chemistry.....	CHM
Information Systems.....	CIS
Criminal Justice.....	CJC
Communication	COM
Cosmetology	COS
Computer Science	CSC
Computer Technology Integration	CTI
Computer Information Technology	CTS
Database Management Technology.....	DBA
Design Drafting	DDF
Developmental Mathematics	DMA
Developmental Mathematics Shells.....	DMS
Developmental Reading/English.....	DRE
Drafting	DFT
Drama/Theatre	DRA
Economics	ECO

Course Descriptions

Education	EDU
Engineering.....	EGR
Electricity	ELC
Electronics.....	ELN
English	ENG
Entrepreneurship.....	ETR
French	FRE
Geology.....	GEL
Geography	GEO
German.....	GER
Health.....	HEA
History.....	HIS
Health Information Technology.....	HIT
Hotel and Restaurant Management	HRM
Humanities.....	HUM
Hydraulics and Pneumatics	HYD
Industrial Science	ISC
Italian	ITA
Machining	MAC
Mathematics.....	MAT
Mechanical.....	MEC
Medical Assisting	MED
Marketing and Retailing.....	MKT
Music.....	MUS
Networking Technology	NET
Networking Operating System	NOS
Nursing	NUR
Operations Management.....	OMT
Office Systems Technology	OST
Physical Education	PED
Philosophy.....	PHI
Physics	PHY
Plastics	PLA
Political Science	POL
Psychology.....	PSY
Reading.....	RED
Religion.....	REL
Information Systems Security.....	SEC
Sociology	SOC
Spanish.....	SPA
Transportation Technology.....	TRN
Work-based Learning	WBL
Web Technologies	WEB
Welding.....	WLD

■ ACADEMIC RELATED (ACA)

Code	Description	Lecture	Lab	Clinic	Credit
ACA 111	College Student Success	1	0	0	1

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ACA 118	College Study Skills	1	2	0	2

Prerequisites: None

Corequisites: None

This course covers skills and strategies designed to improve study behaviors. Topics include time management, note taking, test taking, memory techniques, active reading strategies, critical thinking, communication skills, learning styles, and other strategies for effective learning. Upon completion, students should be able to apply appropriate study strategies and techniques to the development of an effective study plan. Library skills and research are introduced.

Code	Description	Lecture	Lab	Clinic	Credit
ACA 122	College Transfer Success	0	2	0	1

Prerequisites: None

Corequisites: None

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 (ACC)

Code	Description	Lecture	Lab	Clinic	Credit
ACC 120	Principles of Financial Accounting	3	2	0	4

Prerequisites: DRE 096 or RED 080 or ENG 085; and DMA 010 or MAT 050; or satisfactory reading and math placement scores

Corequisites: None

This course introduces business decision-making 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 pre-major and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
ACC 121	Principles of Managerial Accounting	3	2	0	4

Prerequisites: ACC 120

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ACC 131	Federal Income Taxes	2	2	0	3

Prerequisites: None

Corequisites: None

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 of 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.

Code	Description	Lecture	Lab	Clinic	Credit
ACC 132	NC Business Taxes	2	0	0	2

Prerequisites: None

Corequisites: None

This course introduces the relevant laws governing North Carolina taxes as they apply to business. Topics include sales taxes, income taxes for business entities, payroll taxes, unemployment taxes, and other taxes pertaining to the State of North Carolina. Upon completion, students should be able to maintain a company's records to comply with the laws governing North Carolina business taxes. *Students will be expected to do research with the appropriate State agency to determine guidelines for compliance with the various business tax laws.*

Code	Description	Lecture	Lab	Clinic	Credit
ACC 140	Payroll Accounting	1	2	0	2

Prerequisites: ACC 115 or ACC 120

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ACC 150	Accounting Software Applications	1	2	0	2

Prerequisites: ACC 115 or ACC 120

Corequisites: None

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 solve accounting problems. Computer simulations will be used in this course.

Code	Description	Lecture	Lab	Clinic	Credit
ACC 180	Practices in Bookkeeping	3	0	0	3

Prerequisites: ACC 120

Corequisites: None

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 business.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
ACC 215	Ethics in Accounting	3	0	0	3

Prerequisites: ACC 121

Corequisites: None

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 discussions 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.

Code	Description	Lecture	Lab	Clinic	Credit
ACC 220	Intermediate Accounting I	3	2	0	4

Prerequisites: ACC 120 or ACC 121

Corequisites: None

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 analyses of financial statements. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards.

Code	Description	Lecture	Lab	Clinic	Credit
ACC 225	Cost Accounting	3	0	0	3

Prerequisites: ACC 121

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ACC 240	Governmental and Not-for-Profit Accounting	3	0	0	3

Prerequisites: ACC 121

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ACC 269	Audit and Assurance Services	3	0	0	3

Prerequisites: ACC 220

Corequisites: None

This course introduces selected topics pertaining to the objectives, theory and practices in engagements providing auditing and other assurance services. Topics will 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.

■ ANTHROPOLOGY (ANT)

Code	Description	Lecture	Lab	Clinic	Credit
ANT 210	General Anthropology	3	0	0	3

Prerequisites: DRE 097, RED 080 or ENG 085
or satisfactory reading placement score

Corequisites: DRE 098 or DRE 099

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ANT 221	Comparative Cultures	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095
or satisfactory reading placement scores

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
ANT 240	Archaeology	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement scores

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ANT 240A	Archaeology Field Lab	0	4	0	2

Prerequisites: None

Corequisites: ANT 240

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.*

■ ART (ART)

Code	Description	Lecture	Lab	Clinic	Credit
ART 111	Art Appreciation	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement scores

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 114	Art History Survey I	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement scores

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 115	Art History Survey II	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement scores

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 121	Two-Dimensional Design	0	6	0	3

Prerequisites: None

Corequisites: None

Fee: \$35

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
ART 122	Three-Dimensional Design 0	6	0	0	3
Prerequisites: None					
Corequisites: None					
Fee: \$35					

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.*

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 132	Drawing II	0	6	0	3
Prerequisites: ART 131					
Corequisites: None					
Fee: \$35					

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 135	Figure Drawing I	0	6	0	3
Prerequisites: ART 131					
Corequisites: None (<i>For Fine Art pre-majors in Art only:</i> ART 121 is a prerequisite for this course.)					
Fee: \$40					

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 171	Computer Art I	0	6	0	3
Prerequisites: None					
Corequisites: None (<i>For Fine Art pre-majors in Art only:</i> ART 121 is a prerequisite for this course.)					
Fee: \$35					

This course introduces the use of the computer as a tool for solving visual problems. Emphasis is placed on fundamentals of computer literacy and design through bit-mapped image manipulation. Upon completion, students should be able to demonstrate an understanding of paint programs, printers, and scanners to capture, manipulate, and output images. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 214	Art Portfolio and Resume	0	2	0	1
Prerequisites: ART 121					
Corequisites: None					

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 mount original art for portfolio presentation, photograph and display a professional slide 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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
ART 240	Painting I	0	6	0	3

Prerequisites: None

Corequisites: None (*For Fine Art pre-majors in Art only:*
ART 121 is a prerequisite for this course.)

Fee: \$35

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 241	Painting II	0	6	0	3

Prerequisites: ART 240

Corequisites: None (*For Fine Art pre-majors in Art only:*
ART 121 is a prerequisite for this course.)

Fee: \$35

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 264	Digital Photography I	1	4	0	3

Prerequisites: None

Corequisites: None (*For Fine Art pre-majors in Art only:*
ART 121 is a prerequisite for this course.)

Fee: \$35

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 265	Digital Photography II	1	4	0	3

Prerequisites: None

Corequisites: None (*For Fine Art pre-majors in Art only:*
ART 121 is a prerequisite for this course.)

Fee: \$35

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 271	Computer Art II	0	6	0	3

Prerequisites: ART 171

Corequisites: None (*For Fine Art pre-majors in Art only:*
ART 121 is a prerequisite for this course.)

Fee: \$35

This course includes advanced computer imaging techniques. Emphasis is placed on creative applications of digital technology. Upon completion, students should be able to demonstrate command of computer systems and applications to express their personal vision. Projects will be derived from the areas of traditional print media or multimedia presentation and web graphics. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 281	Sculpture I	0	6	0	3

Prerequisites: None

Corequisites: None (*For Fine Art pre-majors in Art only:*
ART 122 is a prerequisite for this course.)

Fee: \$35

This course provides an exploration of the creative and technical methods of sculpture with focus on the traditional processes. Emphasis is placed on developing basic skills as they pertain to three-dimensional expression in various media. Upon completion, students should be able to show competence in variety of sculptural approaches. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
ART 282	Sculpture II	0	6	0	3

Prerequisites: ART 281

Corequisites: None (*For Fine Art pre-majors in Art only:*
ART 122 is a prerequisite for this course.)

Fee: \$35

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 283	Ceramics I	0	6	0	3

Prerequisites: None

Corequisites: None (*For Fine Art pre-majors in Art only:*
ART 122 is a prerequisite for this course.)

Fee: \$35

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 pre-major and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 284	Ceramics II	0	6	0	3

Prerequisites: ART 283

Corequisites: None (*For Fine Art pre-majors in Art only:*
ART 122 is a prerequisite for this course.)

Fee: \$35

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 pre-major and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
ART 288	Studio	0	6	0	3

Prerequisites: Permission of Instructor

Corequisites: None

Fee: \$35

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)

Code	Description	Lecture	Lab	Clinic	Credit
AST 111	Descriptive Astronomy	3	0	0	3

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DMA 060; or MAT 080; or MAT 070 and DMA 060; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores.

Corequisites: AST 111A

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 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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
AST 111A	Descriptive Astronomy Lab	0	2	0	1

Prerequisites: DMA 010, DMA 020 and DMA 030; or MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores

Corequisites: AST 111

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.*

■ AUTOMOTIVE TECHNOLOGIES (ATT)

Code	Description	Lecture	Lab	Clinic	Credit
ATT 140	Emerging Transport Tech	2	3	0	3

Prerequisites: None

Corequisites: None

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.

■ AUTOMOTIVE (AUT)

Code	Description	Lecture	Lab	Clinic	Credit
AUT 113	Automotive Servicing I	0	6	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 114	Safety and Emissions	1	2	0	2

Prerequisites: None

Corequisites: None

This course covers the laws, procedures, and specifications needed to perform a North Carolina State Safety and Emissions inspection. Topics include brake, steering and suspension, lighting, horn, windshield wiper, tire, mirrors, and emission control devices inspection. Upon completion, students should be able to perform complete and thorough North Carolina State Safety and Emissions inspections.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 114A	Safety and Emissions Lab	0	2	0	1

Prerequisites: None

Corequisites: AUT 114

Fee: \$35

This course is an optional lab that allows students to enhance their understanding of North Carolina State Emissions Inspection failures. Topics include evaporative, positive crankcase ventilation, exhaust gas recirculation and exhaust emissions systems operation, including catalytic converter failure diagnosis. Upon completion, students should be able to employ diagnostic strategies to repair vehicle emissions failures resulting from North Carolina State Emissions inspection. This lab is required for the Associate in Applied Science Degree in Automotive Systems Technology at Craven Community College.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 116	Engine Repair	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$35

This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
AUT 116A	Engine Repair Lab	0	3	0	1
Prerequisites: None					
Corequisites: AUT 116					
Fee: \$35					

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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 141	Suspension and Steering Systems	2	3	0	3
Prerequisites: None					
Corequisites: None					
Fee: \$25					

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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 141A	Suspension and Steering Lab	0	3	0	1
Prerequisites: None					
Corequisites: AUT 141					
Fee: \$35					

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 various steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 151	Brake Systems	2	3	0	3
Prerequisites: None					
Corequisites: None					
Fee: \$35					

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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 151A	Brakes Systems Lab	0	3	0	1
Prerequisites: None					
Corequisites: AUT 151					
Fee: \$35					

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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 181	Engine Performance I-Electrical	2	3	0	3
Prerequisites: None					
Corequisites: None					
Fee: \$35					

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 drivability problems using appropriate test equipment/service information.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
AUT 181A	Engine Performance I Lab	0	3	0	1

Prerequisites: None

Corequisites: AUT 181

Fee: \$35

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 drivability problems using appropriate test equipment/service information.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 183	Engine Performance II-Fuels	2	6	0	4

Prerequisites: AUT 181

Corequisites: None

Fee: \$35

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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 212	Auto Shop Management	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers the principals 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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 213	Automotive Servicing II	1	3	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 221	Auto Transmissions/Transaxles	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$35

This course cover 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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 221A	Auto Transmissions/Transaxles Lab	0	3	0	1

Prerequisites: None

Corequisites: AUT 221

Fee: \$35

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. This lab is required for the Associate in Applied Science Degree in Automotive Systems Technology at Craven Community College.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
AUT 231	Manual Transmissions/ Axles/Drive trains	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$35

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 service 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. This lab is required for the Associate in Applied Science Degree in Automotive Systems Technology at Craven Community College.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 231A	Manual Transmissions/ Axles/Drive trains Lab	0	3	0	1

Prerequisites: None

Corequisites: AUT 231

Fee: \$35

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.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 281	Advanced Engine Performance	2	2	0	3

Prerequisites: None

Corequisites: None

This course utilizes service information and specialized test equipment to diagnose and repair power train control systems. Topics include computerized ignition, fuel and emission systems, related diagnostic tools and equipment, data communication networks, and service information. Upon completion, students should be able to perform diagnosis and repair.

Code	Description	Lecture	Lab	Clinic	Credit
AUT 284	Emerging Auto Technologies	2	6	0	4

Prerequisites: None

Corequisites: None

This course covers emerging technologies in the automotive industry and the diagnostics associated with those technologies. Topics include exploring new technologies, diagnostic tools and methods, and repairs. Upon completion, students should be able to understand emerging automotive technologies.

■ AVIATION MAINTENANCE (AVI)

Code	Description	Lecture	Lab	Clinic	Credit
AVI 110	Aviation Maintenance General	10	15	0	15

Prerequisites: MAT 060 or DMA 010, DMA 020, and DMA 030; and RED 090 or ENG 095 or DRE 098 or DRE 099; or satisfactory reading and math placement scores

Corequisites: None

Fee: \$63

This course introduces general subjects related to all aspects of aircraft maintenance. Topics include mechanic privileges/limitations; math and physics; basic electricity; aircraft drawing; 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.

Code	Description	Lecture	Lab	Clinic	Credit
AVI 120	Airframe Maintenance I	6	18	0	12

Prerequisites: AVI 110

Corequisites: None

Fee: \$63

This course covers airframe structures, systems, and components with an emphasis on the different types of aircraft construction and repair methods. Topics include aircraft nonmetallic structures (composites), 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.

Code	Description	Lecture	Lab	Clinic	Credit
AVI 130	Airframe Maintenance II	6	9	0	9

Prerequisites: AVI 110

Corequisites: None

Fee: \$63

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.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
AVI 230	Airframe Maintenance III	4	9	0	7

Prerequisites: AVI 110

Corequisites: None

Fee: \$63

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.

Code	Description	Lecture	Lab	Clinic	Credit
AVI 240	Powerplant Maintenance I	3	9	0	6

Prerequisites: AVI 110

Corequisites: None

Fee: \$63

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.

Code	Description	Lecture	Lab	Clinic	Credit
AVI 250	Powerplant Maintenance II	10	15	0	15

Prerequisites: AVI 110

Corequisites: None

Fee: \$63

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.

Code	Description	Lecture	Lab	Clinic	Credit
AVI 260	Powerplant Maintenance III	5	12	0	9

Prerequisites: AVI 110

Corequisites: None

Fee: \$63

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.

■ BANKING AND FINANCE (BAF)

Code	Description	Lecture	Lab	Clinic	Credit
BAF 110	Principles of Banking	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers the fundamentals of bank functions in a descriptive fashion. Topics include banks and the monetary system, the relationship of banks to depositors, the payment functions, bank loans and accounting, regulations, and examinations. Upon completion, students should be able to demonstrate an understanding of the business of banking from a broad perspective.

Code	Description	Lecture	Lab	Clinic	Credit
BAF 111	Teller Training	3	0	0	3

Prerequisites: None

Corequisites: None

This course provides an overview of banking teller operations, bank security, and customer relations in preparation for work as a bank teller. Topics include bank profitability, cash and cash handling, checks and other transactions, balancing and setting, and security threats and their detection. Upon completion, students should be able to discuss the components of teller performance and perform effectively as a teller after minimal on the job training.

■ Business Analytics (BAS)

Code	Description	Lecture	Lab	Clinic	Credit
BAS 120	Business Analytics I	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces basic concepts of business analytics. Topics include an overview of data and text mining, forecasting and optimization techniques, data visualization, data security, and ethics. Upon completion, students should be able to demonstrate a basic understanding of analytics for decision-making in business.

Course Descriptions

■ BIOLOGY (BIO)

Code	Description	Lecture	Lab	Clinic	Credit
BIO 110	Principles of Biology	3	3	0	4

Prerequisites: DMA 010, DMA 020, and DMA 030; or MAT 060; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores

Corequisites: None

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 for transferability as a general education Natural Science requirement for the AA and AFA degree. This is a Universal General Education Transfer Component (UGETC) course.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 111	General Biology I	3	3	0	4

Prerequisites: Prerequisite: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050; or MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores

Corequisites: None

Fee: \$15

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.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 112	General Biology II	3	3	0	4

Prerequisites: BIO 111

Corequisites: None

Fee: \$15

This course is an evolution 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.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 120	Introductory Botany	3	3	0	4

Prerequisites: BIO 110 or BIO 111

Corequisites: None

Fee: \$15

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.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 130	Introductory Zoology	3	3	0	4

Prerequisites: BIO 110 or BIO 111

Corequisites: None

Fee: \$15

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.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 140	Environmental Biology	3	0	0	3

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050; or MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores

Corequisites: BIO 140A

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
BIO 140A	Environmental Biology Lab	0	3	0	1

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050; or MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores

Corequisites: BIO 140

Fee: \$15

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.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 155	Nutrition	3	0	0	3

Prerequisites: None

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 163	Basic Anatomy and Physiology	4	2	0	5

Prerequisites: DMA 010, DMA 020, and DMA 030; or MAT 060; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores

Corequisites: None

Fee: \$15

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.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 168	Anatomy and Physiology I	3	3	0	4

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050; or MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores

Corequisites: None

Fee: \$15

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, 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.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 169	Anatomy and Physiology II	3	3	0	4

Prerequisites: BIO 168

Corequisites: None

Fee: \$15

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 premajor and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
BIO 275	Microbiology	3	3	0	4

Prerequisites: BIO 110, BIO 111, BIO 163, BIO 165 or BIO 168

Corequisites: None

Fee: \$15

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 premajor and/or elective course requirement.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
BIO 280	Biotechnology	2	3	0	3

Prerequisites: BIO 111, CHM 131 or CHM 151
 Corequisites: None
 Fee: \$15

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.*

Code	Description	Lecture	Lab	Clinic	Credit
BUS 115	Business Law I	3	0	0	3

Prerequisites: DRE 096 or ENG 085 or RED 080; or satisfactory reading placement score
 Corequisites: None

This course introduces the ethics and legal framework of business. Emphasis is placed on contracts, negotiable instruments, Uniform Commercial Code, and the working of the court systems. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

■ BLUEPRINT READING (BPR)

Code	Description	Lecture	Lab	Clinic	Credit
BPR 111	Blueprint Reading	1	2	0	2

Prerequisites: None
 Corequisites: None
 Fee: \$25

This course introduces the basic principles of blueprint reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic blueprints and visualize the features of a part.

Code	Description	Lecture	Lab	Clinic	Credit
BPR 121	Blueprint Reading: Mechanical	1	2	0	2

Prerequisites: BPR 111 or MAC 131
 Corequisites: None
 Fee: \$25

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)

Code	Description	Lecture	Lab	Clinic	Credit
BUS 110	Intro to Business	3	0	0	3

Prerequisites: None
 Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
BUS 116	Business Law II	3	0	0	3

Prerequisites: BUS 115
 Corequisites: None

This course continues the study of ethics and business law. Emphasis is placed on bailments, sales, risk-bearing, forms of business ownership, and copyrights. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations.

Code	Description	Lecture	Lab	Clinic	Credit
BUS 125	Personal Finance	3	0	0	3

Prerequisites: None
 Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
BUS 135	Principles of Supervision	3	0	0	3

Prerequisites: None
 Corequisites: None

This course introduces the basic responsibilities and duties of the supervisor and his/her relationship to higher-level supervisors, subordinates, and associates. Emphasis is placed on effective utilization of the work force and understanding the role of the supervisor. Upon completion, students should be able to apply supervisory principles in the work place.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
BUS 137	Principles of Management	3	0	0	3

Prerequisites: None

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
BUS 139	Entrepreneurship I	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
BUS 153	Human Resource Management	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
BUS 217	Employment Law and Regulations	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
BUS 225	Business Finance	2	2	0	3

Prerequisites: ACC 120

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
BUS 234	Training and Development	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
BUS 239	Business Applications Seminar	1	2	0	2

Prerequisites: ACC 120, BUS 115, BUS 137, MKT 120 and ECO 251 or ECO 252

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
BUS 240	Business Ethics	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces contemporary and controversial ethical issues that face the business community. Topics include moral reasoning, moral dilemmas, law and morality, equity, justice and fairness, ethical standards, and moral development. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
BUS 245	Entrepreneurship II	3	0	0	3

Prerequisites: BUS 139

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
BUS 253	Leadership and Management Skills	3	0	0	3

Prerequisites: None

Corequisites: None

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.

■ CHEMISTRY (CHM)

Code	Description	Lecture	Lab	Clinic	Credit
CHM 090	Chemistry Concepts	4	0	0	4

Prerequisites: DMA 010, DMA 020, DMA 030, and DMA 040; or MAT 060 and DMA 040; or MAT 070; or satisfactory math placement score

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CHM 131	Introduction to Chemistry	3	0	0	3

Prerequisites: Prerequisite: DMA 010, DMA 020, DMA 030, and DMA 040; or MAT 060 and DMA 040; or MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095, or satisfactory math and reading placement scores

Corequisites: CHM 131A

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.*

Code	Description	Lecture	Lab	Clinic	Credit
CHM 131A	Introduction to Chemistry Lab	0	3	0	1

Prerequisites: Prerequisite: DMA 010, DMA 020, DMA 030, and DMA 040; or MAT 060 and DMA 040; or MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095, or satisfactory math and reading placement score

Corequisites: CHM 131

Fee: \$15

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
CHM 132	Organic and Biochemistry	3	3	0	4

Prerequisites: CHM 131 and CHM 131A or CHM 151
 Corequisites: None
 Fee: \$15

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.*

Code	Description	Lecture	Lab	Clinic	Credit
CHM 151	General Chemistry I	3	3	0	4

Prerequisites: Prerequisite: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, and DMA 080; or MAT 080; and DRE 098 or DRE 099 or RED 090 and ENG 095; or satisfactory math and reading placement scores
 Corequisites: MAT 161 or MAT 171
 Fee: \$15

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.*

Code	Description	Lecture	Lab	Clinic	Credit
CHM 152	General Chemistry II	3	3	0	4

Prerequisites: CHM 151
 Corequisites: None
 Fee: \$15

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 for the Associate in Science degree. It satisfies other General Education hours for the Associate in Arts degree.*

Code	Description	Lecture	Lab	Clinic	Credit
CHM 251	Organic Chemistry I	3	3	0	4

Prerequisites: CHM 152
 Corequisites: None
 Fee: \$15

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.*

Code	Description	Lecture	Lab	Clinic	Credit
CHM 252	Organic Chemistry II	3	3	0	4

Prerequisites: CHM 251
 Corequisites: None
 Fee: \$15

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.*

Course Descriptions

■ INFORMATION SYSTEMS (CIS)

Code	Description	Lecture	Lab	Clinic	Credit
CIS 110	Introduction to Computers	2	2	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory writing and reading placement scores

Corequisites: None

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).*

Note: CIS 110 is not counted as a general education mathematics course at Craven Community College.

Code	Description	Lecture	Lab	Clinic	Credit
CIS 111	Basic PC Literacy	1	2	0	2

Prerequisites: None

Corequisites: DRE 096 or ENG 085 or RED 080; or satisfactory reading placement score

This course provides an overview of computer concepts. Emphasis is placed on the use of personal computers and software applications for personal and fundamental workplace use. Upon completion, students should be able to demonstrate basic personal computer skills.

Code	Description	Lecture	Lab	Clinic	Credit
CIS 113	Computer Basics	0	2	0	1

Prerequisites: None

Corequisites: DRE 096 or ENG 085 or RED 080; or satisfactory reading placement score

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.

Code	Description	Lecture	Lab	Clinic	Credit
CIS 115	Intro to Program and Logic	2	3	0	3

Prerequisites: DRE 096 and 097 or ENG 085 or RED 080; and DMA 010, DMA 020, DMA 030, and DMA 040 or MAT 121 or MAT 171; or satisfactory reading and math placement scores

Corequisites: None

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 manage files with operating system commands, 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).*

■ CRIMINAL JUSTICE (CJC)

Code	Description	Lecture	Lab	Clinic	Credit
CJC 100	Basic Law Enforcement Training	9	30	0	19

Prerequisites: None

Corequisites: None

Fee: \$65

This course covers the skills and knowledge needed for entry-level employment as a law enforcement officer in North Carolina. Topics are divided into general units of study: legal, patrol duties, law enforcement communications, investigations, practical application and sheriff-specific. Upon successful completion, the student will be able to demonstrate competence in topics and area required for the state comprehensive certification examination. *This is a certificate-level course.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
CJC 111	Intro to Criminal Justice	3	0	0	3

Prerequisites: None

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
CJC 112	Criminology	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 113	Juvenile Justice	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 114	Investigative Photography	1	2	0	2

Prerequisites: None

Corequisites: None

This course covers the operation of digital photographic equipment and its application to criminal justice. Topics include the use of digital cameras, storage of digital images, the retrieval of digital images and preparation of digital images as evidence. Upon completion, students should be able to demonstrate and explain the role and use of digital photography, image storage and retrieval in criminal investigations.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 120	Interviews/ Interrogations	1	2	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 121	Law Enforcement Operations	3	0	0	3

Prerequisites: None

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
CJC 122	Community Policing	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers the historical, philosophical, and practical dimensions of community policing. Emphasis is placed on the empowerment of police and the community to find solutions to problems by forming partnerships. Upon completion, students should be able to define community policing, describe how community policing strategies solve problems, and compare community policing to traditional policing.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 131	Criminal Law	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
CJC 132	Court Procedure and Evidence	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 141	Corrections	3	0	0	3

Prerequisites: None

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
CJC 151	Intro to Loss Prevention	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 160	Terrorism: Underlying Issues	3	0	0	3

Prerequisites: None

Corequisites: None

This course identifies the fundamental reasons why America is a target for terrorists, covering various domestic/international terrorists 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, the student should be able to identify and discuss the methods used in terrorists' activities and complete threat assessment for terrorists' incidents.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 161	Intro Homeland Security	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 162	Intel Analysis and Security Management	3	0	0	3

Prerequisites: None

Corequisites: None

This course examines intelligence analysis and its relationship to the security management of terrorist attacks and other threats to national security of the United States. Topics include a historic overview, definitions and concepts, intelligence, evolution, politicization, operations strategies, surveillance, analysis perspectives, covert action, and ethics. Upon completion, students should be able to outline intelligence policies, evaluate source information, implement intelligence techniques and analysis, identify threats, and apply ethical behaviors.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
CJC 170	Critical Incident Management Public Safety	3	0	0	3

Prerequisites: None

Corequisites: None

This course prepares the student to specialize in the direct response, operations, and management of critical incidents. Emphasis is placed upon the theoretical and applied models to understand and manage disasters, terrorism, and school/work place violence. Upon completion, the student should be able to identify and discuss managerial techniques legal issues, and response procedures to critical incidents.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 211	Counseling	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces the basic elements of counseling and specific techniques applicable to the criminal justice setting. Topics include observation, listening, recording, interviewing, and problem exploration necessary to form effective helping relationships. Upon completion, students should be able to discuss and demonstrate the basic techniques of counseling.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 212	Ethics and Community Relations	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 213	Substance Abuse	3	0	0	3

Prerequisites: None

Corequisites: None

This course is a study of substance abuse in our society. Topics include the history and classifications of drug abuse and the social, physical, and psychological impact of drug abuse. Upon completion, students should be able to identify various types of drugs, their effects on human behavior and society, and treatment modalities. Emphasis will be placed also on investigative techniques and laws pertaining to drug investigations.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 214	Victimology	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 215	Organization and Administration	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces the components and functions of organization and administration as it applies to the agencies of the criminal justice system. Topics include operations/functions of organizations; recruiting, training, and retention of personnel; funding and budgeting; communications; span of control and discretion; and other related topics. Upon completion, students should be able to identify and discuss the basic components and functions of a criminal justice organization and its administrative operations.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 221	Investigative Principles	3	2	0	4

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 222	Criminalistics	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
CJC 223	Organized Crime	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 231	Constitutional Law	3	0	0	3

Prerequisites: CJC 131

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 232	Civil Liability	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 233	Correctional Law	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces statutory/case law pertinent to correctional concepts, facilities, and related practices. Topics include examination of major legal issues encompassing incarceration, probation, parole, restitution, pardon, restoration of rights, and other related topics. Upon completion, students should be able to identify/discuss legal issues which directly affect correctional systems and personnel.

Code	Description	Lecture	Lab	Clinic	Credit
CJC 241	Community-Based Corrections	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers programs for convicted offenders that are used both as alternatives to incarceration and in post-incarceration situations. Topics include offenders, diversion, house arrest, restitution, community service, probation and parole, including both public and private participation, and other related topics. Upon completion, students should be able to identify/discuss the various programs from the perspective of the criminal justice professional, the offender, and the community.

■ COMMUNICATION (COM)

Code	Description	Lecture	Lab	Clinic	Credit
COM 110	Introduction to Communication	3	0	0	3

Prerequisites: DRE 098 or DRE 099; or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal group, public, intercultural, and mass communication situations. Upon completion, students should be able to explain and illustrate the forms and purposes of human communication in a variety of contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in speech/communication.*

Code	Description	Lecture	Lab	Clinic	Credit
COM 111	Voice and Diction I	3	0	0	3

Prerequisites: DRE 098 or DRE 099; or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
COM 120	Intro to Interpersonal Communication	3	0	0	3

Prerequisites: DRE 098 or DRE 099; or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
COM 130	Nonverbal Communication	3	0	0	3

Prerequisites: COM 110 or COM 120

Corequisites: None

This course introduces the contemporary study of nonverbal communication in daily life. Topics include haptics, kinesics, proxemics, facial displays, and appearance. Upon completion, students should be able to analyze/interpret nonverbal communication and demonstrate greater awareness of their own nonverbal communication habits. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
COM 140	Intro to Intercultural Communication	3	0	0	3

Prerequisites: DRE 098 or DRE 099; or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course introduces techniques of cultural research, definitions, functions, characteristics, and impacts of cultural differences in public address. Emphasis is placed on how diverse backgrounds influence the communication act and how cultural perceptions and experiences determine how one sends and receives messages. Upon completion, students should be able to demonstrate an understanding of the principles and skills needed to become effective in communicating outside one's primary culture. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education requirement in speech/communications.*

Code	Description	Lecture	Lab	Clinic	Credit
COM 231	Public Speaking	3	0	0	3

Prerequisites: DRE 098 or DRE 099; or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

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.*

Course Descriptions

■ COSMETOLOGY (COS)

Code	Description	Lecture	Lab	Clinic	Credit
COS 111	Cosmetology Concepts I	4	0	0	4
<i>COS 111A</i>		<i>2</i>	<i>0</i>	<i>0</i>	<i>2</i>
<i>COS 111B</i>		<i>2</i>	<i>0</i>	<i>0</i>	<i>2</i>

Prerequisites: DRE 096 or RED 080 and ENG 080 or ENG 085 and 085A; and DMA 010, DMA 020, and DMA 030 or MAT 060; or satisfactory writing, reading and math placement scores

Corequisites: COS 112

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.

Code	Description	Lecture	Lab	Clinic	Credit
COS 112	Salon I	0	24	0	8
<i>COS 112A</i>		<i>0</i>	<i>12</i>	<i>0</i>	<i>4</i>
<i>COS 112B</i>		<i>0</i>	<i>12</i>	<i>0</i>	<i>4</i>

Prerequisites: DRE 096 or RED 080 and ENG 080 or ENG 085 and 085A; and DMA 010, DMA 020, and DMA 030 or MAT 060; or satisfactory writing, reading and math placement scores

Corequisites: COS 111

Fee: \$10 for COS 112

This course introduces basic salon services. Topics include scalp treatments, shampooing, rinsing, hair color, design, hair cutting, permanent waving, pressing, relaxing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate salon services.

Code	Description	Lecture	Lab	Clinic	Credit
COS 113	Cosmetology Concepts II	4	0	0	4
<i>COS 113A</i>		<i>2</i>	<i>0</i>	<i>0</i>	<i>2</i>
<i>COS 113B</i>		<i>2</i>	<i>0</i>	<i>0</i>	<i>2</i>

Prerequisites: COS 111 and COS 112

Corequisites: COS 114

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.

Code	Description	Lecture	Lab	Clinic	Credit
COS 114	Salon II	0	24	0	8
<i>COS 114A</i>		<i>0</i>	<i>12</i>	<i>0</i>	<i>4</i>
<i>COS 114B</i>		<i>0</i>	<i>12</i>	<i>0</i>	<i>4</i>

Prerequisites: COS 111 and COS 112

Corequisites: COS 113

Fee: \$10 for COS 114

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, hair cutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

Code	Description	Lecture	Lab	Clinic	Credit
COS 115	Cosmetology Concepts III	4	0	0	4
<i>COS 115A</i>		<i>2</i>	<i>0</i>	<i>0</i>	<i>2</i>
<i>COS 115B</i>		<i>2</i>	<i>0</i>	<i>0</i>	<i>2</i>

Prerequisites: COS 111 and COS 112

Corequisites: COS 116

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.

Code	Description	Lecture	Lab	Clinic	Credit
COS 116	Salon III	0	12	0	4
<i>COS 116A</i>		<i>0</i>	<i>6</i>	<i>0</i>	<i>2</i>
<i>COS 116B</i>		<i>0</i>	<i>6</i>	<i>0</i>	<i>2</i>

Prerequisites: COS 111 and COS 112

Corequisites: COS 115

Fees: \$10 for COS 116; \$5 for COS 116A or 116 B

This course provides comprehensive experience in a simulated salon setting. Emphasis is placed on intermediate-level of skin care, manicuring, scalp treatments, shampooing, hair color, design, hair cutting, chemical restructuring, pressing, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

Code	Description	Lecture	Lab	Clinic	Credit
COS 117	Cosmetology Concepts IV	2	0	0	2
<i>COS 117A</i>		<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>
<i>COS 117B</i>		<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>

Prerequisites: COS 111 and COS 112

Corequisites: COS 118

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
COS 118	Salon IV	0	21	0	7
COS 118A		0	12	0	4
COS 118B		0	9	0	3

Prerequisites: None

Corequisites: COS 117

Fee: \$10

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.

Code	Description	Lecture	Lab	Clinic	Credit
COS 119	Esthetics Concepts I	2	0	0	2

Prerequisites: DRE 096 or RED 080 and ENG 080 or ENG 085 and 085A; and DMA 010, DMA 020, and DMA 030 or MAT 060; or satisfactory writing, reading and math placement scores

Corequisites: COS 120

Fee: \$10

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.

Code	Description	Lecture	Lab	Clinic	Credit
COS 120	Esthetics Salon I	0	18	0	6

Prerequisites: DRE 096 or RED 080 and ENG 080 or ENG 085 and 085A; and DMA 010, DMA 020, and DMA 030 or MAT 060; or satisfactory writing, reading and math placement scores

Corequisites: COS 119

Fee: \$10

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.

Code	Description	Lecture	Lab	Clinic	Credit
COS 125	Esthetics Concepts II	2	0	0	2

Prerequisites: COS 119 and COS 120
Corequisites: COS 126
Fee: \$10

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.

Code	Description	Lecture	Lab	Clinic	Credit
COS 126	Esthetics Salon II	0	18	0	6

Prerequisites: COS 119 and COS 120

Corequisites: COS 125

Fee: \$10

This course provides experience in a simulated esthetics setting. Topics include machine facials, aromatherapy, massage therapy, 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.

Code	Description	Lecture	Lab	Clinic	Credit
COS 240	Contemporary Design	1	3	0	2

Prerequisites: COS 111 and COS 112

Corequisites: None

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.

■ COMPUTER SCIENCE (CSC)

Code	Description	Lecture	Lab	Clinic	Credit
CSC 120	Computing Fundamentals I	3	2	0	4

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040 and DMA 050 or MAT 060 and MAT 070, or MAT 121 or MAT 171 or satisfactory math placement scores

Corequisites: None

This course provides the essential foundation for the discipline of computing and a program of study in computer science, including the role of the professional. Topics include algorithm design, data abstraction, searching and sorting algorithms, and procedural programming techniques. Upon completion, students should be able to solve problems, develop algorithms, specify data types, perform sorts and searches, and use an operating system. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
CSC 130	Computing Fundamentals II	3	2	0	4

Prerequisites: CSC 120

Corequisites: None

This course provides in-depth coverage of the discipline of computing and the role of the professional. Topics include software design methodologies, analysis of algorithm and data structures, searching and sorting algorithms, and file organization methods. Upon completion, students should be able to use software design methodologies and choice of data structures and understand social/ethical responsibilities of the computing professional. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
CSC 134	C++ Programming	2	3	0	3

Prerequisites: DRE 098 or 099 or RED 090 or ENG 095; and DMA 010, DMA 020, DMA 030, and DMA 040 or MAT 070; or satisfactory reading and math placement scores

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
CSC 139	Visual BASIC Programming	2	3	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095; and DMA 010, DMA 020, DMA 030, and DMA 040 or MAT 070; or satisfactory reading and math placement scores

Corequisites: None

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement*

Code	Description	Lecture	Lab	Clinic	Credit
CSC 151	JAVA Programming	2	3	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095; and DMA 010, DMA 020, DMA 030, and DMA 040 or MAT 070; or satisfactory reading and math placement scores

Corequisites: None

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
CSC 239	Advanced Visual BASIC Programming	2	3	0	3

Prerequisites: CSC 139

Corequisites: None

This course is a continuation of CSC 139 using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. (TAC – 05/24/06)*

Code	Description	Lecture	Lab	Clinic	Credit
CSC 284	Emerging Computer Programming Technologies	2	3	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095; and DMA 010, DMA 020, DMA 030, and DMA 040 or MAT 070; or satisfactory reading and math placement scores

Corequisites: None

This course provides students with the latest technologies and strategies in the field of Computer Programming. Emphasis is placed on the evaluation of developing Computer Programming Technologies and presenting those findings to the class. Upon completion, students should be able to critically analyze emerging Computer Programming Technologies and establish informed opinions.

■ COMPUTER TECHNOLOGY INTEGRATION (CTI)

Code	Description	Lecture	Lab	Clinic	Credit
CTI 110	Web, Programming and Database Foundation	2	2	0	3

Prerequisites: DRE 096 or ENG 085 or RED 080; and DMA 010, DMA 020, DMA 030 and DMA 040 or MAT 070; or satisfactory reading and math placement scores

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CTI 120	Network and Security Foundation	2	2	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CTI 289	CTI Capstone Project	1	6	0	3

Prerequisites: CTI 110, CTI 120, and CTS 115

Corequisites: None

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.

■ COMPUTER INFORMATION TECHNOLOGY (CTS)

Code	Description	Lecture	Lab	Clinic	Credit
CTS 115	Information Systems Business Concepts	3	0	0	3

Prerequisites: ENG 111

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
CTS 120	Hardware/Software Support	2	3	0	3

Prerequisites: CIS 110 or CIS 111

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CTS 130	Spreadsheet	2	2	0	3

Prerequisites: CIS 110 or CIS 111 or OST 137

Corequisites: None

This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
CTS 155	Technical Support Functions	2	2	0	3

Prerequisites: NOS 110

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
CTS 220	Advanced Hardware/Software Support	2	3	0	3

Prerequisites: CTS 120

Corequisites: None

This course provides advanced knowledge and competencies in hardware and operating system technologies for computer technicians to support personal computers. Emphasis is placed on: configuring and upgrading; diagnosis and troubleshooting; as well as preventive maintenance of hardware and system software. Upon completion, students should be able to install, configure, diagnose, perform preventive maintenance, and maintain basic networking on personal computers.

Code	Description	Lecture	Lab	Clinic	Credit
CTS 240	Project Management	2	2	0	3

Prerequisites: CIS 110 or CIS 111

Corequisites: None

This course introduces computerized project management software. Topics include identifying critical paths, cost management, and problem solving. Upon completion, students should be able to plan a complete project and project time and costs accurately.

Code	Description	Lecture	Lab	Clinic	Credit
CTS 287	Emerging Technologies	3	0	0	3

Prerequisites: None

Corequisites: None

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.

■ DATABASE MANAGEMENT TECHNOLOGY (DBA)

Code	Description	Lecture	Lab	Clinic	Credit
DBA 110	Database Concepts	2	3	0	3

Prerequisites: CIS 110 or CIS 111 or CTI 110

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
DBA 120	Database Programming I	2	2	0	3

Prerequisites: CIS 110 or CIS 111 or CTI 110

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
DBA 210	Database Administration	2	3	0	3

Prerequisites: DBA 120

Corequisites: None

This course covers database administration issues and distributed database concepts. Topics include: database administrator (DBA) goals and functions, backup and recovery, standards and procedures, training, and database security and performance evaluations. Upon completion, students should be able to produce functional DBA documentation and administer a database.

Code	Description	Lecture	Lab	Clinic	Credit
DBA 220	Oracle Database Programming II	2	2	0	3

Prerequisites: DBA 120

Corequisites: None

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 an Oracle DBMS application which includes a GUI front-end and report generation.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
DBA 221	SQL Server Database Programming II	2	2	0	3

Prerequisites: DBA 120

Corequisites: None

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 SQL Server DBMS application which includes a GUI front-end and report generation.

Code	Description	Lecture	Lab	Clinic	Credit
DBA 223	MySQL Database	2	2	0	3

Prerequisites: DBA 120

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
DBA 230	Databases in Corporate Environments	3	0	0	3

Prerequisites: DBA 120

Corequisites: None

This course covers database systems as they relate to the corporate environment. Topics include knowledge-based, decision-support, and expert systems; database choices; data warehousing; and corporate structure. Upon completion, students should be able to analyze and recommend database systems needed by a corporation.

Code	Description	Lecture	Lab	Clinic	Credit
DBA 240	Database Analysis/Design	2	3	0	3

Prerequisites: CIS 110, CIS 111 or CTI 110

Corequisites: None

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.

■ DESIGN DRAFTING (DDF)

Code	Description	Lecture	Lab	Clinic	Credit
DDF 211	Design Process I	1	6	0	4

Prerequisites: None

Corequisites: None

Fee: \$25

This course emphasizes design processes for finished products. Topics include data collection from manuals and handbooks, efficient use of materials, design sketching, specifications, and vendor selection. Upon completion, students should be able to research and plan the design process for a finished product.

Code	Description	Lecture	Lab	Clinic	Credit
DDF 212	Design Process II	1	6	0	4

Prerequisites: DDF 211

Corequisites: None

Fee: \$25

This course stresses the integration of various drafting and design practices. Emphasis is placed on the creation of an original design. Upon completion, students should be able to apply drafting and design. Upon completion, students should be able to apply engineering graphics and design procedures to a design project.

Code	Description	Lecture	Lab	Clinic	Credit
DDF 213	Design Process III	1	6	0	4

Prerequisites: DDF 212

Corequisites: None

Fee: \$25

This course provides an opportunity to produce a complete design project. Topics include materials, production means, analysis, documentation, calculations, and specifications. Upon completion, students should be able to produce a completed design project.

Code	Description	Lecture	Lab	Clinic	Credit
DDF 214	Tool Design	2	4	0	4

Prerequisites: None

Corequisites: None

Fee: \$25

This course introduces the principles of tool design. Topics including gaging, die work, and cost analysis using available catalogs and studies using manufacturing processes. Upon completion, students should be able to use catalogs to identify vendors and prepare working drawings for tooling.

Course Descriptions

■ DRAFTING (DFT)

Code	Description	Lecture	Lab	Clinic	Credit
DFT 111	Technical Drafting I	1	3	0	2

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Code	Description	Lecture	Lab	Clinic	Credit
DFT 117	Technical Drafting	1	2	0	2

Prerequisites: None

Corequisites: None

This course introduces basic drafting practices for non-drafting majors. Emphasis is placed on instrument use and care, shape and size description, sketching, and pictorials. Upon completion, students should be able to produce drawings of assigned parts.

Code	Description	Lecture	Lab	Clinic	Credit
DFT 151	CAD I	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Code	Description	Lecture	Lab	Clinic	Credit
DFT 152	CAD II	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Code	Description	Lecture	Lab	Clinic	Credit
DFT 153	CAD III	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Code	Description	Lecture	Lab	Clinic	Credit
DFT 170	Engineering Graphics	2	2	0	3

Prerequisites: None

Corequisites: None

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.*

■ DEVELOPMENTAL MATHEMATICS (DMA)

Code	Description	Lecture	Lab	Clinic	Credit
DMA 010	Operations with Integers	.75	.5	0	1

Prerequisites: None

Corequisites: None

This course provides a conceptual study of integers and integer operations. Topics include integers, absolute value, exponents, square roots, perimeter and area of basic geometric figures, Pythagorean theorem, and use of the correct order of operations. Upon completion, students should be able to demonstrate an understanding of pertinent concepts and principles and apply this knowledge in the evaluation of expressions.

Code	Description	Lecture	Lab	Clinic	Credit
DMA 020	Fractions and Decimals	.75	.5	0	1

Prerequisites: DMA 010

Corequisites: None

This course provides a conceptual study of the relationship between fractions and decimals and covers related problems. Topics include application of operations and solving contextual application problems, including determining the circumference and area of circles with the concept of pi. Upon completion, students should be able to demonstrate an understanding of the connections between fractions and decimals.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
DMA 030	Proportions/Ratio/Rate/Percent	.75	.5	0	1

Prerequisites: DMA 010 and DMA 020

Corequisites: None

This course provides a conceptual study of the problems that are represented by rates, ratios, percent, and proportions. Topics include rates, ratios, percent, proportion, conversion of English and metric units, and applications of the geometry of similar triangles. Upon completion, students should be able to use their understanding to solve conceptual application problems.

Code	Description	Lecture	Lab	Clinic	Credit
DMA 040	Expressions/Linear Equations/Inequalities	.75	.5	0	1

Prerequisites: DMA 010, DMA 020, and DMA 030; or MAT 060

Corequisites: None

This course provides a conceptual study of problems involving linear expressions, equations, and inequalities. Emphasis is placed on solving contextual application problems. Upon completion, students should be able to distinguish between simplifying expressions and solving equations and apply this knowledge to problems involving linear expressions, equations, and inequalities.

Code	Description	Lecture	Lab	Clinic	Credit
DMA 050	Graphs/Equations of Lines	.75	.5	0	1

Prerequisites: DMA 010, DMA 020, DMA 030, and DMA 040; or DMA 040 and MAT 060

Corequisites: None

This course provides a conceptual study of problems involving graphic and algebraic representations of lines. Topics include slope, equations of lines, interpretation of basic graphs, and linear modeling. Upon completion, students should be able to solve contextual application problems and represent real-world situations as linear equations in two variables.

Code	Description	Lecture	Lab	Clinic	Credit
DMA 060	Polynomials/Quadratic Applications	.75	.5	0	1

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050; or DMA 040, DMA 050, and MAT 060; or MAT 060 and MAT 070

Corequisites: None

This course provides a conceptual study of problems involving graphic and algebraic representations of quadratics. Topics include basic polynomial operations, factoring polynomials, and solving polynomial equations by means of factoring. Upon completion, students should be able to find algebraic solutions to contextual problems with quadratic applications.

Code	Description	Lecture	Lab	Clinic	Credit
DMA 065	Algebra for Precalculus Applications	1.5	1	0	2

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050

Corequisites: None

This course provides a study of problems involving algebraic representations of quadratic, rational, and radical equations. Topics include simplifying polynomial, rational, and radical expressions and solving quadratic, rational, and radical equations. Upon completion, students should be able to find algebraic solutions to contextual problems with quadratic and rational applications.

Code	Description	Lecture	Lab	Clinic	Credit
DMA 070	Rational Expressions /Equations	.75	.5	0	1

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DMA 060; or DMA 040, DMA 050, DMA 060, and MAT 060; or DMA 060, MAT 060 and MAT 070; or DMA 010, DMA 020, DMA 030, DMA 060, and MAT 070

Corequisites: None

This course provides a conceptual study of problems involving graphic and algebraic representations of rational equations. Topics include simplifying and performing operations with rational expressions and equations, understanding the domain, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with rational applications.

Code	Description	Lecture	Lab	Clinic	Credit
DMA 080	Rational Expressions/Equations	.75	.5	0	1

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, and DMA 070; or DMA 060, DMA 070, MAT 060, and MAT 070; or DMA 040, DMA 050, DMA 060, DMA 070, and MAT 060; or DMA 010, DMA 020, DMA 030, DMA 060, DMA 070, and MAT 070

Corequisites: None

This course provides a conceptual study of the manipulation of radicals and the application of radical equations to real-world problems. Topics include simplifying and performing operations with radical expressions and rational exponents, solving equations, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with radical applications

Course Descriptions

DEVELOPMENTAL MATHEMATICS SHELLS (DMS)

Code	Description	Lecture	Lab	Clinic	Credit
DMS 001	Developmental Math Shell 1	.75	.5	0	1

Prerequisites: None

Corequisites: None

This course provides an opportunity to customize developmental math content in specific developmental math areas. Content will be one DMA module appropriate to the required level of the student. Upon completion, students should be able to demonstrate an understanding of their specific developmental math area of content.

Code	Description	Lecture	Lab	Clinic	Credit
DMS 002	Developmental Math Shell 2	1.5	1	0	2

Prerequisites: None

Corequisites: None

This course provides an opportunity to customize developmental math content in specific developmental math areas. Content will be two DMA module appropriate to the required level of the student. Upon completion, students should be able to demonstrate an understanding of their specific developmental math area of content.

Code	Description	Lecture	Lab	Clinic	Credit
DMS 003	Developmental Math Shell 3	2.25	1.5	0	3

Prerequisites: None

Corequisites: None

This course provides an opportunity to customize developmental math content in specific developmental math areas. Content will be three DMA module appropriate to the required level of the student. Upon completion, students should be able to demonstrate an understanding of their specific developmental math area of content.

Code	Description	Lecture	Lab	Clinic	Credit
DMS 004	Developmental Math Shell 4	3	2	0	4

Prerequisites: None

Corequisites: None

This course provides an opportunity to customize developmental math content in specific developmental math areas. Content will be four DMA module appropriate to the required level of the student. Upon completion, students should be able to demonstrate an understanding of their specific developmental math area of content.

DRAMA/THEATRE (DRA)

Code	Description	Lecture	Lab	Clinic	Credit
DRA 122	Oral Interpretation	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

This course introduces the dramatistic study of literature through performance. Emphasis is placed on analysis and performance of poetry, drama, and prose fiction. Upon completion, students should be able to embody and discuss critically the speakers inherent in literature. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts*

DEVELOPMENTAL READING/ENGLISH (DRE)

Code	Description	Lecture	Lab	Clinic	Credit
DRE 096	Integrated Reading and Writing I	2.5	1	0	3

Prerequisites: None

Corequisites: None

This course is designed to develop proficiency in specific integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are primarily taught at the introductory level using texts primarily in a Lexile® range of 960 to 1115. Upon completion, students should be able to apply those skills toward understanding a variety of academic and career-related texts and composing effective paragraphs.

Code	Description	Lecture	Lab	Clinic	Credit
DRE 097	Integrated Reading and Writing II	2.5	1	0	3

Prerequisites: DRE 096

Corequisites: None

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught at a reinforcement level using texts primarily in a Lexile® range of 1070 to 1220. Upon completion, students should be able to demonstrate and apply those skills toward understanding a variety of complex academic and career texts and composing essays incorporating relevant, valid evidence.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
DRE 098	Integrated Reading and Writing III	2.5	1	0	3

Prerequisites: DRE 097

Corequisites: None

This course is designed to develop proficiency in specific integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are primarily taught at the introductory level using texts primarily in a Lexile® range of 960 to 1115. Upon completion, students should be able to apply those skills toward understanding a variety of academic and career-related texts and composing effective paragraphs.

Code	Description	Lecture	Lab	Clinic	Credit
DRE 099	Integrated Reading and Writing IV	2	0	0	2

Prerequisites: DRE 097

Corequisites: ENG 111

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies by complementing, supporting and reinforcing material covered in ENG 111. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught using texts primarily in the Lexile® range of 1185 to 1385. Upon completion, students should be able to apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essay.

■ ECONOMICS (ECO)

Code	Description	Lecture	Lab	Clinic	Credit
ECO 251	Principles of Macroeconomics	3	0	0	3

Prerequisites: DRE 096 or ENG 085 or RED 080 and DMA 010, DMA 020, DMA 030, DMA 040 or MAT 060; or satisfactory reading and math placement scores

Corequisites: None

This course introduces economic analysis of individual, business, and industry choices 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.

Code	Description	Lecture	Lab	Clinic	Credit
ECO 252	Principles of Macroeconomics	3	0	0	3

Prerequisites: DRE 096 or ENG 085 or RED 080; or satisfactory reading placement score

Corequisites: None

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)

Code	Description	Lecture	Lab	Clinic	Credit
EDU 119	Introduction to Early Childhood Education	4	0	0	4

Prerequisites: DRE 096 and DRE 097 or ENG 080 and RED 080, or ENG 085 and ENG 085A; or satisfactory writing and reading placement scores

Corequisites: None

This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for all children. Topics include historical foundations, program types, career options, professionalism and creating inclusive environments and curriculum responsive to the needs of all children and families. Upon completion, students should be able to design career plans and develop schedules, environments and activity plans appropriate for all children.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
EDU 125	Sign Language for Educators				3 0 0 3

Prerequisites: DRE 096 and DRE 097 or ENG 080 and RED 080, or ENG 085 and ENG 085A; or satisfactory writing and reading placement scores

Corequisites: None

This course introduces students to the sign language systems commonly used in educational environments. Topics include finger spelling, receptive and expressive sign language usage, a comparison of sign language systems and forms of relevant technology. Upon completion, students should be able to communicate at an introductory level using various English based sign language systems including Manually Coded English.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 131	Child, Family, and Community	3	0	0	3

Prerequisites: DRE 096 and DRE 097 or ENG 080 and RED 080, or ENG 085 and ENG 085A; or satisfactory writing and reading placement scores

Corequisites: None

This course covers the development of partnerships between culturally and linguistically diverse families, children, schools and communities. Emphasis is placed on developing skills and identifying benefits for establishing, supporting, and maintaining respectful, collaborative relationships between diverse families, programs/schools, and community agencies/resources. Upon completion, students should be able to explain appropriate relationships between families, educators, and professionals that enhance development and educational experiences of all children.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 144	Child Development I	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course includes the theories of child development, needs, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 145	Child Development II	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course includes the theories of child development, needs, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 146	Child Guidance	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course introduces principles and practical techniques including the design of learning environments for providing developmentally appropriate guidance for all children, including those at risk. Emphasis is placed on observation skills, cultural influences, underlying causes of behavior, appropriate expectations, development of self control and the role of communication and guidance. Upon completion, students should be able to demonstrate direct/indirect strategies for preventing problem behaviors, teaching appropriate/acceptable behaviors, negotiation, setting limits and recognizing at risk behaviors.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 151	Creative Activities	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course covers planning, creation and adaptation of developmentally supportive learning environments with attention to curriculum, interactions, teaching practices and learning materials. Emphasis is placed on creating and adapting integrated, meaningful, challenging and engaging developmentally supportive learning experiences in art, music, movement and dramatics for all children. Upon completion, students should be able to create, adapt, implement and evaluate developmentally supportive learning materials, experiences and environments.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
EDU 153	Health, Safety, and Nutrition	3	0	0	3

Prerequisites: DRE 096 and DRE 097 or ENG 080 and RED 080, or ENG 085 and ENG 085A; or satisfactory writing and reading placement scores

Corequisites: None

This course covers promoting and maintaining the health and well-being of all children. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, recognition and reporting of abuse and neglect and state regulations. Upon completion, students should be able to demonstrate knowledge of health, safety, and nutritional needs, safe learning environments, and adhere to state regulations.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 157	Active Play	2	2	0	3

Prerequisites: DRE 096 and DRE 097 or ENG 080 and RED 080, or ENG 085 and ENG 085A; or satisfactory writing and reading placement scores

Corequisites: None

This course introduces the use of indoor and outdoor physical activities to promote the physical, cognitive, and social/emotional development of children. Topics include the role of active play, development of play skills, playground design, selection of safe equipment, and materials and surfacing for active play. Upon completion, students should be able to discuss the stages of play, the role of teachers in play, and the design of appropriate active play areas and activities.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 184	Early Childhood Introduction Practicum	1	3	0	2

Prerequisites: EDU 119; and DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

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 and assisting in the implementation of developmentally appropriate activities/environments for all children; and modeling reflective/professional practices. Upon completion, students should be able to demonstrate developmentally appropriate interactions with children and ethical/professional behaviors as indicated by assignments and on-site faculty visits.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 216	Foundations of Education (EDU 216 replaced EDU 116)	4	0	0	4

Prerequisites: DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course introduces the American educational system and the teaching profession. Topics include historical and philosophical foundations of education, contemporary educational, structural, legal, and financial issues, and experiences in public school classrooms. Upon completion, students should be able to relate classroom observations to the roles of teachers and schools and the process of teacher education. *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.*

Code	Description	Lecture	Lab	Clinic	Credit
EDU 221	Children with Exceptionalities	3	0	0	3

Prerequisites: EDU 144 and EDU 145; and either DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course introduces children with exceptionalities, their families, support services, inclusive/diverse settings, and educational/family plans based on the foundations of child development. Emphasis is placed on the characteristics of exceptionalities, observation and assessment of children, strategies for adapting the learning environment, and identification of community resources. Upon completion, students should be able to recognize diverse abilities, describe the referral process, and depict collaboration with families/professionals to plan/implement, and promote best practice. *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.**

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
EDU 234	Infants, Toddlers, and Twos	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: EDU 234A

This course covers the unique needs and rapid changes that occur in the first three years of life and the inter-related factors that influence development. Emphasis is placed on recognizing and supporting developmental milestones through purposeful strategies, responsive care routines and identifying elements of quality, inclusive early care and education. Upon completion, students should be able to demonstrate respectful relationships that provide a foundation for healthy infant/toddler/twos development, plan/select activities/materials, and partner with diverse families.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 234A	Infants, Toddlers, and Twos Lab	0	2	0	1

Prerequisites: EDU 119 and DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: EDU 234

This course focuses on practical applications that support the healthy development of very young children by applying principles of quality inclusive early care and education. Emphasis is placed on recognizing the interrelated factors that impact children's development through planning, evaluating and adapting quality environments, including activities and adult/child interactions. Upon completion, students should be able to demonstrate the ability to engage in respectful, responsive care that meets the unique needs of individual children/families.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 235	School-Age Development and Program	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

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. Upon completion, students should be able to discuss developmental principles for all children ages five to twelve and plan and implement developmentally-appropriate activities.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 259	Curriculum Planning	3	0	0	3

Prerequisites: EDU 119; and DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course is designed to focus on curriculum planning for three to five year olds. Topics include philosophy, curriculum models, indoor and outdoor environments, scheduling, authentic assessment, and planning developmentally appropriate experiences. Upon completion, students should be able to evaluate children's development, critique curriculum, plan for individual and group needs, and assess and create quality environments.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 261	Early Childhood Admin I	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: EDU 119

This course introduces principles of basic programming and staffing, budgeting/financial management and marketing, and rules and regulations of diverse early childhood programs. Topics include program structure and philosophy, standards of NC child care programs, finance, funding resources, and staff and organizational management. Upon completion, students should be able to develop components of program/personnel handbooks, a program budget, and demonstrate knowledge of fundamental marketing strategies and NC standards.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 262	Early Childhood Admin II	3	0	0	3

Prerequisites: EDU 261; and either DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: EDU 119

This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
EDU 271	Educational Technology	2	2	0	3

Prerequisites: CIS 110 or CIS 111; and DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course introduces the use of technology to enhance teaching and learning in all educational settings. Topics include technology concepts, instructional strategies, materials and adaptive technology for children with exceptionalities, facilitation of assessment/evaluation, and ethical issues surrounding the use of technology. Upon completion, students should be able to apply technology enhanced instructional strategies, use a variety of technology resources and demonstrate appropriate technology skills in educational environments.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 280	Language and Literacy Experiences	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090 or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: None

This course is designed to expand students' understanding of children's language and literacy development and provides strategies for enhancing language/literacy experiences in an enriched environment. Topics include selection of diverse literature and interactive media, the integration of literacy concepts throughout the curriculum, appropriate observations/assessments and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate and diverse language/literacy experiences.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 284	Early Childhood Capstone Prac	1	9	0	4

Prerequisites: EDU 119, EDU 144, EDU 145, EDU 146, and EDU 151; and DRE 098 or DRE 099 or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: EDU 221, EDU 259, EDU 271 and EDU 288

This course is designed to allow students to apply skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and

professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and on-site faculty visits.

Code	Description	Lecture	Lab	Clinic	Credit
EDU 288	Adv Issues/Early Child Education	2	0	0	2

Prerequisites: EDU 119, EDU 144, EDU 145, EDU 146, and EDU 151; and DRE 098 OR 099 or ENG 090 and ENG 090A and RED 090; or ENG 095 and ENG 095A; or satisfactory writing and reading placement scores

Corequisites: EDU 221, EDU 259, and EDU 271

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.

ENGINEERING (EGR)

Code	Description	Lecture	Lab	Clinic	Credit
EGR 150	Introduction to Engineering	1	2	0	2

Prerequisites: None

Corequisites: None

This course is an overview of the engineering profession. Topics include career opportunities, ethics, public safety, the engineering method and design process, written and oral communication, interpersonal skills and team building, and micro-computers. Upon completion, students should be able to understand the engineering process and profession. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
EGR 220	Engineering Statics	3	0	0	3

Prerequisites: PHY 251

Corequisites: MAT 272

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.*

Course Descriptions

■ ELECTRICITY (ELC)

Code	Description	Lecture	Lab	Clinic	Credit
ELC 113	Basic Wiring I	2	6	0	4

Prerequisites: None

Corequisites: None

Fee: \$25

This course introduces the care/usage of tools and materials used in electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical blueprint 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 basic electrical installations.

Code	Description	Lecture	Lab	Clinic	Credit
ELC 117	Motors and Controls	2	6	0	4

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Code	Description	Lecture	Lab	Clinic	Credit
ELC 118	National Electrical Code	1	2	0	2

Prerequisites: None

Corequisites: None

This course covers the use of the current National Electrical Code. Topics include the NEC history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC.

Code	Description	Lecture	Lab	Clinic	Credit
ELC 119	NEC Calculations	1	2	0	2

Prerequisites: None

Corequisites: None

This course covers branch circuit, feeder, and service calculations. Emphasis is placed on sections of the National Electrical Code related to calculations. Upon completion, students should be able to use appropriate code sections to size wire, conduit, and overcurrent devices for branch circuits, feeders, and service.

Code	Description	Lecture	Lab	Clinic	Credit
ELC 131	Circuit Analysis I	3	3	0	4

Prerequisites: None

Corequisites: None

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 software, 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.

Code	Description	Lecture	Lab	Clinic	Credit
ELC 135	Electrical Machines I	2	2	0	3

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Code	Description	Lecture	Lab	Clinic	Credit
ELC 138	DC Circuit Analysis	3	3	0	4

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ELC 139	AC Circuit Analysis	3	3	0	3

Prerequisites: None

Corequisites: None

This course introduces AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include AC voltages, circuit analysis laws and theorems, reactive components and circuits, transformers, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret AC circuit schematics; analyze and troubleshoot AC circuits; and properly use test equipment.

■ ELECTRONICS (ELN)

Code	Description	Lecture	Lab	Clinic	Credit
ELN 131	Analog Electronics I	3	3	0	4

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ELN 132	Linear IC Applications	3	3	0	4

Prerequisites: None

Corequisites: None

Fee: \$25

This course introduces the characteristics and applications of linear integrated circuits. Topics include op-amp circuits, waveform generators, active filters, IC voltage regulators, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot linear integrated circuits using appropriate techniques and test equipment.

Code	Description	Lecture	Lab	Clinic	Credit
ELN 133	Digital Electronics	3	3	0	4

Prerequisites: None

Corequisites: None

Fee: \$25

This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, MSI and LSI circuits, AD/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.

Code	Description	Lecture	Lab	Clinic	Credit
ELN 231	Industrial Controls	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Code	Description	Lecture	Lab	Clinic	Credit
ELN 232	Intro to Microprocessors	3	3	0	4

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Code	Description	Lecture	Lab	Clinic	Credit
ELN 234	Communication Systems	3	3	0	4

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Code	Description	Lecture	Lab	Clinic	Credit
ELN 258	FCC Commercial License Prep	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ELN 260	Prog Logic Controllers	3	3	0	4

Prerequisites: None

Corequisites: None

Fee: \$25

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.

Course Descriptions

■ ENGLISH (ENG)

Beginning in Fall 2013, ENG 080, ENG 085, ENG 085A, ENG 090 and ENG 090A are no longer active courses. However, these ENG courses are used as course prerequisites.

Code	Description	Lecture	Lab	Clinic	Credit
This course (ENG 075) is no longer offered after Fall 2013.					
ENG 075	Reading and Language Essentials	5	0	0	5

Prerequisites: None

Corequisites: ENG 075A

This course uses whole language to develop proficiency in basic reading and writing. Emphasis is placed on increasing vocabulary, developing comprehension skills, and improving grammar. Upon completion, students should be able to understand and create grammatically and syntactically correct sentences.

Code	Description	Lecture	Lab	Clinic	Credit
This course (ENG 075A) is no longer offered after Fall 2013.					
ENG 075A	Reading and Language Essentials Lab	0	2	0	1

Prerequisites: None

Corequisites: ENG 075

This laboratory provides the opportunity to practice the skills introduced in ENG 075. Emphasis is placed on practical skills for increasing vocabulary, developing comprehension skills, and improving grammar. Upon completion, students should be able to apply those skills in the production of grammatically and syntactically correct sentences.

Code	Description	Lecture	Lab	Clinic	Credit
This course (ENG 080) is no longer offered.					
ENG 080	Writing Foundations	3	2	0	4

Prerequisites: ENG 070; or ENG 075 and ENG 075A;
or satisfactory writing scores

Corequisites: None

This course introduces the writing process and stresses effective sentences. Emphasis is placed on applying the conventions of written English, reflecting standard usage and mechanics in structuring a variety of sentences. Upon completion, students should be able to write correct sentences and a unified, coherent paragraph.

Code	Description	Lecture	Lab	Clinic	Credit
This course (ENG 085) is no longer offered.					
ENG 085	Reading and Writing Foundations	5	0	0	5

Prerequisites: ENG 070 and RED 070; or ENG 075 and ENG 075A; or satisfactory writing and reading scores

Corequisites: ENG 085A

This course uses whole language to develop proficiency in reading and writing for college. Emphasis is placed on applying analytical and critical reading skills to a variety of texts and on introducing the writing process. Upon completion, students should be able to recognize and use various patterns of text organization and compose effective paragraphs.

Code	Description	Lecture	Lab	Clinic	Credit
This course (ENG 085A) is no longer offered.					
ENG 085A	Reading and Writing Foundations Lab	0	2	0	1

Prerequisites: ENG 070 and RED 070; or ENG 075 and ENG 075A; or satisfactory writing and reading scores

Corequisites: ENG 085

This laboratory provides the opportunity to practice the skills introduced in ENG 085. Emphasis is placed on practical skills for applying analytical and critical reading skills to a variety of texts and on the writing process. Upon completion, students should be able to apply those skills in the production of effective paragraphs.

Code	Description	Lecture	Lab	Clinic	Credit
This course (ENG 090) is no longer offered.					
ENG 090	Composition Strategies	3	0	0	3

Prerequisites: ENG 080; or ENG 085 and ENG 085A;
or satisfactory writing and reading scores

Corequisites: ENG 090A

This course provides practice in the writing process and stresses effective paragraphs. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay.

Code	Description	Lecture	Lab	Clinic	Credit
This course (ENG 090A) is no longer offered.					
ENG 090A	Composition Strategies Lab	0	2	0	1

Prerequisites: ENG 080 or ENG 085 and ENG 085A;
or satisfactory writing and reading scores

Corequisites: ENG 090

This writing lab is designed to practice the skills introduced in ENG 090. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
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This course (ENG 095) is no longer offered.

ENG 095	Reading and Comprehension Strategies	5	0	0	5
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Prerequisites: ENG 080 and RED 080;
or ENG 085 and ENG 085A;
or satisfactory writing and reading scores

Corequisites: ENG 095A

This course uses whole language to strengthen proficiency in reading and writing for college. Emphasis is placed on applying critical reading skills to narrative and expository texts and on using the writing process. Upon completion, students should be able to comprehend, analyze, and evaluate college texts and to compose essays in preparation for college writing.

Code	Description	Lecture	Lab	Clinic	Credit
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This course (ENG 095A) is no longer offered.

ENG 095A	Reading and Comprehension Strategies Lab	0	2	0	1
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Prerequisites: ENG 080 and RED 080;
or ENG 085 and ENG 085A;
or satisfactory writing and reading scores

Corequisites: ENG 095

This laboratory provides the opportunity to practice the skills introduced in ENG 095. Emphasis is placed on practical skills for applying critical reading skills to narrative and expository texts and on the writing process. Upon completion, students should be able to apply those skills in the production of effective essays in preparation for college writing.

Code	Description	Lecture	Lab	Clinic	Credit
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ENG 111	Writing and Inquiry	3	0	0	3
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Prerequisites: DRE-098; or ENG 090 and ENG 090A and RED 090; or ENG 090; or satisfactory reading and English placement scores

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
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ENG 112	Writing/Research in the Disciplines	3	0	0	3
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Prerequisites: ENG 111

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
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ENG 114	Professional Research and Reporting	3	0	0	3
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Prerequisites: ENG 111

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
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ENG 125	Creative Writing I	3	0	0	3
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Prerequisites: ENG 111

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
ENG 231	American Literature I	3	0	0	3

Prerequisites: ENG 112, ENG 113 or ENG 114

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ENG 232	American Literature II	3	0	0	3

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course provides an intensive study of the works of several major American authors. Emphasis is placed on American history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a general education course in Humanities/Fine Art. This is a Universal General Education Transfer Component (UGETC) course.*

Code	Description	Lecture	Lab	Clinic	Credit
ENG 243	Major British Writers	3	0	0	3

Prerequisites: ENG 112 or ENG 114

Corequisites: None

This course provides an intensive study of the works of several major British authors. Emphasis is placed on British history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

Code	Description	Lecture	Lab	Clinic	Credit
ENG 261	World Literature I	3	0	0	3

Prerequisites: ENG 112 or ENG 114

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
ENG 262	World Literature II	3	0	0	3

Prerequisites: ENG 112 or ENG 114

Corequisites: None

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.*

■ ENTREPRENEURSHIP (ETR)

Code	Description	Lecture	Lab	Clinic	Credit
ETR 215	Law for Entrepreneurs	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces students to basic legal concepts specifically relevant to a business start-up venture. Topics include bailments and documents of title, nature and form of sales, risk and property rights, obligations and performance, business organizations, and agency and employment. Upon completion, students should be able to assess the legal responsibilities of a business start-up.

Code	Description	Lecture	Lab	Clinic	Credit
ETR 220	Innovation and Creativity	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ETR 230	Entrepreneur Marketing	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
ETR 240	Funding for Entrepreneurs	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ETR 270	Entrepreneurship Issues	3	0	0	3

Prerequisites: None

Corequisites: None

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)

Code	Description	Lecture	Lab	Clinic	Credit
FRE 111	Elementary French I	3	0	0	3

Prerequisites: DRE 097; or ENG 080 and ENG 080A and RED 080; or ENG 085 and ENG 085A; or satisfactory reading and writing placement scores

Corequisites: FRE 181

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.*

Code	Description	Lecture	Lab	Clinic	Credit
FRE 112	Elementary French II	3	0	0	3

Prerequisites: FRE 111

Corequisites: FRE 182

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.*

Code	Description	Lecture	Lab	Clinic	Credit
FRE 181	French Lab 1	0	2	0	1

Prerequisites: None

Corequisites: FRE 111

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*

Code	Description	Lecture	Lab	Clinic	Credit
FRE 182	French Lab 2	0	2	0	1

Prerequisites: FRE 181

Corequisites: FRE 112

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
FRE 211	Intermediate French I	3	0	0	3

Prerequisites: FRE 112

Corequisites: None

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.*

■ GEOLOGY (GEL)

Code	Description	Lecture	Lab	Clinic	Credit
GEL 111	Introductory Geology	3	2	0	4

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050; or MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores.

Corequisites: None

This course introduces basis 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 is a Universal General Education Transfer Component (UGETC) course.*

■ GEOGRAPHY (GEO)

Code	Description	Lecture	Lab	Clinic	Credit
GEO 111	World Regional Geography	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

■ GERMAN (GER)

Code	Description	Lecture	Lab	Clinic	Credit
GER 111	Elementary German I	3	0	0	3

Prerequisites: DRE 097; or ENG 080 and RED 080; or ENG 085; or satisfactory writing and reading placement scores

Corequisites: GER 181

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.*

Code	Description	Lecture	Lab	Clinic	Credit
GER 112	Elementary German II	3	0	0	3

Prerequisites: GER 111

Corequisites: GER 182

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.*

Code	Description	Lecture	Lab	Clinic	Credit
GER 181	German Lab 1	0	2	0	1

Prerequisites: None

Corequisites: GER 111

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
GER 182	German Lab 2	0	2	0	1

Prerequisites: GER 181

Corequisites: GER 112

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.*

Code	Description	Lecture	Lab	Clinic	Credit
GER 211	Intermediate German I	3	0	0	3

Prerequisites: GER 112

Corequisites: None

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, student 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)

Code	Description	Lecture	Lab	Clinic	Credit
HEA 110	Personal Health/Wellness	3	0	0	3

Prerequisites: DRE 096 or ENG 085 or RED 080; or satisfactory reading placement score

Corequisites: None

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 premajor and/or elective course requirement.*

HISTORY (HIS)

Code	Description	Lecture	Lab	Clinic	Credit
HIS 111	World Civilizations I	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
HIS 112	World Civilizations II	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
HIS 121	Western Civilization I	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
HIS 122	Western Civilization II	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
HIS 131	American History I	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
HIS 132	American History II	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

HEALTH INFORMATION TECHNOLOGY (HIT)

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 admission, progression and graduation requirements.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 110	Fundamentals of HIM	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces Health Information Management (HIM) and its role in healthcare delivery systems. Topics include standards, regulations, and initiatives; payment and reimbursement systems and healthcare providers and disciplines. Upon completion, students should be able to demonstrate an understanding of health information management and healthcare organizations, professions, and trends.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 112	Health Law and Ethics	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers legislative and regulatory processes, legal terminology, and professional-related and practice-related ethical issues. Topics include confidentiality; privacy and security policies, procedures and monitoring; release of information policies and procedures; and professional-related and practice-related ethical issues. Upon completion, students should be able to apply policies and procedures for access and disclosure of Protected Health Information and apply and promote ethical standards.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 114	Health Data Sys/Standards	2	3	0	3

Prerequisites: None

Corequisites: None

This course covers basic concepts and techniques for managing and maintaining manual and electronic health data records (EHR). Topics include structure and use of health information including collection tools, data sources and sets, storage and retrieval, quality and integrity of healthcare data. Upon completion, students should be able to monitor and apply organization-wide health data documentation guidelines and comply with regulatory standards.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
HIT 122	Prof Practice Exp I	0	0	3	1

Prerequisites: None

Corequisites: None

This course provides supervised clinical experience in healthcare settings. Emphasis is placed on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 124	Prof Practice Exp II	0	0	3	1

Prerequisites: None

Corequisites: None

This course provides supervised clinical experience in healthcare settings. Emphasis is placed on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 210	Healthcare Statistics	2	2	0	3

Prerequisites: MAT 110

Corequisites: None

This course covers maintenance, compilation, analysis, and presentation of healthcare statistics and research protocols and techniques. Topics include basic statistical principles, indices, databases, registries, vital statistics, descriptive statistics, research protocol monitoring, Institutional Review Board processes, and knowledge-based research techniques. Upon completion, students should be able to apply, interpret, and present healthcare statistics and utilize research techniques to gather and interpret healthcare data.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 211	ICD Coding	2	6	0	4

Prerequisites: None

Corequisites: None

This course covers ICD diagnostic and procedural coding conventions and guidelines for inpatient, outpatient and ambulatory care. Emphasis is placed on a comprehensive application of anatomy, physiology and interrelationships among organ systems. Upon completion, students should be able to accurately assign and sequence diagnostic and procedural codes for patient outcomes, statistical and reimbursement purposes.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 214	CPT/Other Coding Systems	1	3	0	2

Prerequisites: HIT 211

Corequisites: None

This course covers application of principles and guidelines of CPT/HCPCS coding. Topics include clinical classification/nomenclature systems such as SNOMED, DSM, ICD-O and the use of encoders. Upon completion, students should be able to apply coding principles to correctly assign CPT/HCPCS codes.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 215	Reimbursement Methodologies	1	2	0	2

Prerequisites: None

Corequisites: None

This course covers reimbursement methodologies used in all healthcare settings as they relate to national billing, compliance and reporting requirements. Topics include prospective payment systems, billing process and procedures, charge-master maintenance, regulatory guidelines, reimbursement monitoring, and 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.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 216	Quality Management	1	3	0	2

Prerequisites: HIT 114

Corequisites: None

This course introduces principles of quality assessment and improvement, and utilization, risk, and case management, in healthcare. Topics include Continuous Quality Improvement, and case management processes, data analysis/reporting techniques, credentialing, regulatory quality monitoring requirements, and outcome measures and monitoring. Upon completion, students should be able to abstract, analyze, and report clinical data for facility-wide quality management/performance improvement programs and monitor compliance measures.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 218	Management Principles in HIT	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers organizational management concepts as applied to healthcare settings. Topics include roles/functions of teams/committees, leadership, communication and interpersonal skills, designing and implementing orientation/training programs, monitoring workflow, performance standards, revenue cycles, and organizational resources. Upon completion, students should be able to apply management, leadership, and supervisory concepts to various healthcare settings.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
HIT 220	Health Informatics and EHR 1	2	0	0	2

Prerequisites: HIT 114 and CIS 110 or CIS 111

Corequisites: None

This course covers EHR systems, design, implementation and application. Topics include EHR, Informatics, speech and imaging technology, information/network security and integrity, datadictionaries, modeling and warehousing. Upon completion, students should be able to facilitate usage of electronic health record systems and other technologies.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 222	Prof Practice Exp III	0	0	6	2

Prerequisites: None

Corequisites: None

This course provides supervised clinical experience in healthcare settings. Emphasis is placed on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 226	Principles of Disease	3	0	0	3

Prerequisites: BIO 166 or BIO 169

Corequisites: None

This course covers disease etiology and organ system involvement, including physical signs and symptoms, prognoses, and common complications and their management. Topics include basic microbiology, basic pharmacology, and principles of disease. Upon completion, students should be able to relate disease processes to etiology, physical signs and symptoms, prognosis and common complications and their management.

Code	Description	Lecture	Lab	Clinic	Credit
HIT 280	Professional Issues	2	0	0	2

Prerequisites: HIT 211

Corequisites: None

This course provides a comprehensive discussion of topics common to the health information profession. Emphasis is placed on application of professional competencies, job search tools, and preparation for the certification examination. Upon completion, students should be able to demonstrate competence in entry-level domains and subdomains for health information technologies.

HOTEL AND RESTAURANT MANAGEMENT (HRM)

Code	Description	Lecture	Lab	Clinic	Credit
HRM 245	Human Resource Management - Hospitality	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces a systematic approach to human resource management in the hospitality industry. Topics include training/development, staffing, selection, hiring, recruitment, evaluation, benefit administration, employee relations, labor regulations/laws, discipline, motivation, productivity, shift management, contract employees and organizational culture. Upon completion, students should be able to apply human resource management skills for the hospitality industry.

HUMANITIES (HUM)

Code	Description	Lecture	Lab	Clinic	Credit
HUM 110	Technology and Society	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
HUM 115	Critical Thinking	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 and ENG 095A; or satisfactory reading and writing placement score

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
HUM 120	Cultural Studies	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. This course explores a particular culture through intensive study on campus and field experience in a host country or area. Upon completion, students should be able to appreciate the unique character of the study culture. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

Code	Description	Lecture	Lab	Clinic	Credit
HUM 160	Introduction to Film	2	2	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
HUM 211	Humanities I	3	0	0	3

Prerequisites: ENG 111

Corequisites: None

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of human-kind'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.*

Code	Description	Lecture	Lab	Clinic	Credit
HUM 212	Humanities II	3	0	0	3

Prerequisites: ENG 111

Corequisites: None

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of human-kind'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.*

■ HYDRAULICS AND PNEUMATICS (HYD)

Code	Description	Lecture	Lab	Clinic	Credit
HYD 110	Hydraulics/ Pneumatics I	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$75

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)

Code	Description	Lecture	Lab	Clinic	Credit
ISC 110	Workplace Safety	1	0	0	1

Prerequisites: None

Corequisites: None

This course introduces the basic concepts of workplace safety. Topics include fire, ladders, lifting, lock-out/tag-out, personal protective devices, and other workplace safety issues related to OSHA compliance. Upon completion, students should be able to demonstrate an understanding of the components of a safe workplace.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
ISC 112	Industrial Safety	2	0	0	2

Prerequisites: None

Corequisites: None

This course introduces the principles of industrial safety. Emphasis is placed on industrial safety, OSHA, and environmental regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance.

Code	Description	Lecture	Lab	Clinic	Credit
ISC 121	Environmental Health and Safety	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers workplace environmental health and safety concepts. Emphasis is placed on managing the implementation and enforcement of environmental health and safety regulations and on preventing accidents, injuries, and illnesses. Upon completion, students should be able to demonstrate an understanding of basic concepts of environmental health and safety.

Code	Description	Lecture	Lab	Clinic	Credit
ISC 131	Quality Management	3	0	0	3

Prerequisites: None

Corequisites: None

This course provides a study and analysis of the aspects and implications of quality management that lead to customer satisfaction through continuous quality improvement. Topics include Total Quality Management, ISO 9000, organizing for quality, supplier/vendor relationships, and the role of leadership in quality management. Upon completion, students should be able to demonstrate an understanding of quality management concepts and techniques.

Code	Description	Lecture	Lab	Clinic	Credit
ISC 132	Mfg Quality Control	2	3	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
ISC 133	Mfg Management Practices	2	0	0	2

Prerequisites: None

Corequisites: None

This course covers successful industrial organizations and management practices for improving quality and productivity. Topics include selfmanaged work teams, problemsolving skills, and production management techniques. Upon completion, students should be able to demonstrate an understanding of daytoday plant operations, team management processes, and the principles of group dynamics.

Code	Description	Lecture	Lab	Clinic	Credit
ISC 210	Operations and Production Planning	3	0	0	3

Prerequisites: OMT 110

Corequisites: None

This course includes the fundamentals of operations and production planning, forecasting, and scheduling. Topics include demand management, production planning and control, scheduling, and budgeting. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques involved in operations and production planning. This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.

Code	Description	Lecture	Lab	Clinic	Credit
ISC 221	Statistical Qual Control	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers the principles and techniques of statistical process control for the improvement of productivity. Emphasis is placed on basic statistics for quality control, organization and procedures for efficient quality control including inspections, process control, and tests of significance. Upon completion, students should be able to apply statistical principles and techniques to enhance production.

Code	Description	Lecture	Lab	Clinic	Credit
ISC 272	Quality Mgmt Concepts	2	3	0	3

Prerequisites: None

Corequisites: None

This course is a fundamental coverage of total quality management. Topics include leadership, customer satisfaction, employee involvement, continuous process improvement, and other modern approaches to maintaining a quality organization. Upon completion, students should be able to understand how the various elements of a quality system work together.

■ ITALIAN (ITA)

Code	Description	Lecture	Lab	Clinic	Credit
ITA 111	Elementary Italian I	3	0	0	3

Prerequisites: DRE 097; or ENG 080 and RED 080; or ENG 085 and ENG 085A; or satisfactory writing and reading placement scores

Corequisites: ITA 181

This course introduces the fundamental elements of the Italian 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 Italian and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

Code	Description	Lecture	Lab	Clinic	Credit
ITA 112	Elementary Italian II	3	0	0	3

Prerequisites: ITA 111

Corequisites: ITA 182

This course is a continuation of ITA 111 focusing on the fundamental elements of the Italian 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 Italian and demonstrate further cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

Code	Description	Lecture	Lab	Clinic	Credit
ITA 181	Italian Lab 1	0	2	0	1

Prerequisites: None

Corequisites: ITA 111

This course provides an opportunity to enhance acquisition of the fundamental elements of the Italian 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 Italian 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.*

Code	Description	Lecture	Lab	Clinic	Credit
ITA 182	Italian Lab 2	0	2	0	1

Prerequisites: ITA 181

Corequisites: ITA 112

This course provides an opportunity to enhance acquisition of the fundamental elements of the Italian 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 Italian 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.*

Code	Description	Lecture	Lab	Clinic	Credit
ITA 211	Intermediate Italian I	3	0	0	3

Prerequisites: ITA 112

Corequisites: None

This course provides a review and expansion of the essential skills of the Italian 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.*

■ MACHINING (MAC)

Code	Description	Lecture	Lab	Clinic	Credit
MAC 111	Machining Technology I	2	12	0	6
MAC111A		1	6	0	3
MAC111B		1	6	0	3

Prerequisites: None

Corequisites: None

Fee: \$35 for MAC 111A; \$35 for MAC 111B;
\$75 for MAC 111

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments. Upon completion, students should be able to safely perform the basic operations of measuring, layout, drilling, sawing, turning, and milling.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MAC 112	Machining Technology II	2	12	0	6
<i>MAC 112A</i>		1	6	0	3
<i>MAC 112B</i>		1	6	0	3

Prerequisites: MAC 111

Corequisites: None

Fee: \$35 for MAC 112A; \$35 for MAC 112B;
\$75 for MAC 112

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 113	Machining Technology III	2	12	0	6
<i>MAC 113A</i>		1	6	0	3
<i>MAC 113B</i>		1	6	0	3

Prerequisites: MAC 112

Corequisites: None

Fee: \$35 for MAC 113A; \$35 for MAC 113B;
\$75 for MAC 113

This course provides an introduction to advanced and special machining operations. Emphasis is placed on working to specified tolerances with special and advanced setups. Upon completion, students should be able to produce a part to specifications.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 114	Introduction to Metrology	2	0	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 117	Metal Forming Skills I	2	6	0	4

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 121	Intro to CNC	2	0	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 122	CNC Turning	1	3	0	2

Prerequisites: None

Corequisites: None

Fee: \$75

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 124	CNC Milling	1	3	0	2

Prerequisites: None

Corequisites: None

Fee: \$75

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 126	CNC Metal Fabrication	1	3	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 131	Blueprint Reading/Mach I	1	2	0	2

Prerequisites: None

Corequisites: None

This course covers the basic principles of blueprint reading and sketching. Topics include multi-view drawings; interpretation of conventional lines; and dimensions, notes, and thread notations. Upon completion, students should be able to interpret basic drawings, visualize parts, and make pictorial sketches.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MAC 132	Blueprint Reading/Mach II 1	2	0	2	

Prerequisites: MAC 131

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 153	Compound Angles	1	2	0	2

Prerequisites: None

Corequisites: None

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. This course is a unique concentration requirement of the Tool, Die, and Mold Making concentration in the Machining Technology program.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 160	Coordinate Measuring Machining	2	2	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 222	Advanced CNC Turning	1	3	0	2

Prerequisites: MAC 122

Corequisites: None

Fee: \$75

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 224	Advanced CNC Milling	1	3	0	2

Prerequisites: MAC 124

Corequisites: None

Fee: \$75

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 226	CNC EDM Machining	1	3	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 228	Advanced CNC Processes	2	3	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 229	CNC Programming	2	0	0	2

Prerequisites: MAC 121, MAC 122, MAC 124, or MAC 226

Corequisites: None

This course provides concentrated study in advanced programming techniques for working with modern CNC machine tools. Topics include custom macros and sub-routines, canned cycles, and automatic machining cycles currently employed by the machine tool industry. Upon completion, students should be able to program advanced CNC functions while conserving machine memory.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MAC 231	CNC Graphics	1	4	0	3

Programming: Turning

Prerequisites: MAC 121 or MAC 122

Corequisites: None

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, include machine selection, tool selection, operational sequence, speed, feed, and cutting depth.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 232	CNC Graphics	1	4	0	3

Programming: Milling

Prerequisites: MAC 121 or MAC 124

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 233	Appl in CNC Machining	2	12	0	6

Prerequisites: None

Corequisites: None

Fee: \$75

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 234	Adv Multi-Axis Machining	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$75

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 241	Jigs and Fixtures I	2	6	0	4

Prerequisites: MAC 112

Corequisites: None

Fee: \$75

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 243	Die Making I	2	6	0	4

Prerequisites: MAC 112

Corequisites: None

Fee: \$75

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 245	Mold Construction I	2	6	0	4

Prerequisites: MAC 112

Corequisites: None

Fee: \$75

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAC 248	Production Procedures	1	2	0	2

Prerequisites: None

Corequisites: None

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.

■ MATHEMATICS (MAT)

Beginning in Fall 2013, MAT 050, MAT 060, MAT 070, MAT 080 and MAT 090 are no longer active courses. However, these MAT courses are used as course prerequisites.

Code	Description	Lecture	Lab	Clinic	Credit
MAT 050	Basic Math Skills	3	2	0	4

This course (MAT 050) may be offered.

Prerequisites: Placement

Corequisites: None

This course is designed to strengthen basic math skills. Topics include properties, rounding, estimating, comparing, converting, and computing whole numbers, fractions, and decimals. Upon completion, students should be able to perform basic computations and solve relevant mathematical problems.

Code	Description	Lecture	Lab	Clinic	Credit
MAT 060	Essential Mathematics	3	2	0	4

This course (MAT 060) is no longer offered.

Prerequisites: MAT 050 or satisfactory math score

Corequisites: None

This course is a comprehensive study of mathematical skills which should provide a strong mathematical foundation to pursue further study. Topics include principles and applications of decimals, fractions, percents, ratio and proportion, order of operations, geometry, measurement, and elements of algebra and statistics. Upon completion, students should be able to perform basic computations and solve relevant, multi-step mathematical problems using technology where appropriate.

Code	Description	Lecture	Lab	Clinic	Credit
MAT 070	Introductory Algebra	3	2	0	4

This course (MAT 070) is no longer offered.

Prerequisites: MAT 060 or satisfactory math score

Corequisites: RED 080 or ENG 085

This course establishes a foundation in algebraic concepts and problem solving. Topics include signed numbers, exponents, order of operations, simplifying expressions, solving linear equations and inequalities, graphing, formulas, polynomials, factoring, and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.

Code	Description	Lecture	Lab	Clinic	Credit
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This course (MAT 080) is no longer offered.

MAT 080	Intermediate Algebra	3	2	0	4
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Prerequisites: MAT 070 or satisfactory math score

Corequisites: RED 080 or ENG 085

This course continues the study of algebraic concepts with emphasis on applications. Topics include factoring; rational expressions; rational exponents; rational, radical, and quadratic equations; systems of equations; inequalities; graphing; functions; variations; complex numbers; and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.

Code	Description	Lecture	Lab	Clinic	Credit
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This course (MAT 090) is no longer offered.

MAT 090	Accelerated Algebra	3	2	0	4
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Prerequisites: MAT 060

Corequisites: RED 080 or ENG 085

This course covers algebraic concepts with emphasis on applications. Topics include those covered in MAT 070 and MAT 080. Upon completion, students should be able to apply algebraic concepts in problem solving using appropriate technology.

Code	Description	Lecture	Lab	Clinic	Credit
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MAT 110	Math Measurement and Literacy	2	2	0	3
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Prerequisites: DMA 010, DMA 020, DMA 030, or MAT 060; or satisfactory math placement score

Corequisites: None

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MAT 115	Mathematical Models	2	2	0	3

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050; or MAT 070 or MAT 080 or MAT 090 or MAT 120 or MAT 121 or MAT 161 or MAT 171 or MAT 175; or satisfactory math placement score

Corequisites: None

This course develops the ability to utilize mathematical skills and technology to solve problems at a level found in non-mathematics-intensive programs. Topics include applications to percent, ratio and proportion, formulas, statistics, function notation, linear functions, probability, sampling techniques, scatter plots, and modeling. Upon completion, students should be able to solve practical problems, reason and communicate with mathematics, and work confidently, collaboratively, and independently.

Code	Description	Lecture	Lab	Clinic	Credit
MAT 121	Algebra/Trigonometry I	2	2	0	3

Prerequisites: DRE 098 or RED 090; and DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DMA 060; or MAT 060 or MAT 070; or satisfactory math placement score

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MAT 122	Algebra/Trigonometry II	2	2	0	3

Prerequisites: MAT 121 or MAT 161 or MAT 171 or MAT 175

Corequisites: None

This course is designed to cover concepts in algebra, function analysis, and trigonometry. Topics include exponential and logarithmic functions, transformations of functions, Law of Sines, Law of Cosines, vectors, and statistics. Upon completion, students should be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

Code	Description	Lecture	Lab	Clinic	Credit
MAT 143	Quantitative Literacy	2	2	0	3

Prerequisites: DRE 098 and DMA 010, DMA 020, DMA-030, DMA 040, and DMA-050; or satisfactory reading/writing and math placement scores

Corequisites: None

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 and the Associate in Fine Arts degrees. It satisfies other General Education hours for the Associate in Science degree.*

Code	Description	Lecture	Lab	Clinic	Credit
MAT 152	Statistical Methods I	3	2	0	4

Prerequisites: : DRE 098 or RED 090; and DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050, or MAT 060 and MAT 070; or satisfactory reading/writing and math placement scores

Corequisites: None

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 and the Associate in Fine Arts degrees. It satisfies other General Education hours for the Associate in Science degree.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MAT 171	Precalculus Algebra	3	2	0	4

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, and DMA 080; or DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DMA 065; or MAT 121; or satisfactory math placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MAT 172	Precalculus Trigonometry	3	2	0	4

Prerequisites: MAT 171

Corequisites: None

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 and the Associate in Fine Arts degrees.*

Code	Description	Lecture	Lab	Clinic	Credit
MAT 263	Brief Calculus	3	2	0	4

Prerequisites: MAT 171

Corequisites: None

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 and the Associate in Fine Arts degrees.*

Code	Description	Lecture	Lab	Clinic	Credit
MAT 271	Calculus I	3	2	0	4

Prerequisites: MAT 172 or MAT 175; or satisfactory math placement score

Corequisites: None

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 and the Associate in Fine Arts degrees.*

Code	Description	Lecture	Lab	Clinic	Credit
MAT 272	Calculus II	3	2	0	4

Prerequisites: MAT 271 with a grade of C or higher

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MAT 273	Calculus III	3	2	0	4

Prerequisites: MAT 272 with a grade of C or higher

Corequisites: None

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. This is a Universal General Education Transfer Component (UGETC) course.

Code	Description	Lecture	Lab	Clinic	Credit
MAT 280	Linear Algebra	2	2	0	3

Prerequisites: MAT 271

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MAT 285	Differential Equations	2	2	0	3

Prerequisites: MAT 272

Corequisites: None

This course provides an introduction to ordinary differential equations with an emphasis on applications. Topics include first-order, linear higher-order, and systems of differential equations; numerical methods; series solutions; eigenvalues and eigenvectors; Laplace transforms; and Fourier series. Upon completion, students should be able to use differential equations to model physical phenomena, solve the equations, and use the solutions to analyze the phenomena. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

MECHANICAL (MEC)

Code	Description	Lecture	Lab	Clinic	Credit
MEC 110	Intro to CAD/CAM	1	2	0	2

Prerequisites: None

Corequisites: None

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.

measCode	Description	Lecture	Lab	Clinic	Credit
MEC 111	Machine Processes I	1	4	0	3

Prerequisites: None

Corequisites: None

Fee: \$75

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 safely machine simple parts to specified tolerances.

Code	Description	Lecture	Lab	Clinic	Credit
MEC 142	Physical Metallurgy	1	2	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MEC 145	Mfg Materials I	2	3	0	3

Prerequisites: None

Corequisites: None

This course introduces a variety of manufacturing materials and common processing techniques. Emphasis is placed on the processing, testing, and application of materials such as wood, metals, plastics, ceramics, and composites. Upon completion, students should be able to demonstrate an understanding of fundamental engineering applications for a variety of materials, including their process capabilities and limitations.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MEC 180	Engineering Materials	2	3	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MEC 187	Composite Materials	2	3	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MEC 188	Processing Composites I	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$225

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MEC 189	Processing Composites II	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$225

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MEC 212	Composites Materials Test	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$225

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MEC 215	Design of Composite Structure	2	3	0	3

Prerequisites: None

Corequisites: None

Fee: \$225

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)

Selective admission into 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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 110	Orientation to Medical Assist	1	0	0	1

Prerequisites: None

Corequisites: None

This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MED 118	Medical Law and Ethics	2	0	0	2

Prerequisites: None

Corequisites: None

This course covers legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed consent, and bio-ethical 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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 121	Medical Terminology I	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 122	Medical Terminology II	3	0	0	3

Prerequisites: MED 121

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 130	Administrative Office Procedures I	1	2	0	2

Prerequisites: None

Corequisites: MED 110, MED 150

Fee: \$50

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 131	Administrative Office Procedures II	1	2	0	2

Prerequisites: MED 130

Corequisites: MED 140

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 134	Medical Transcription	2	2	0	3

Prerequisites: MED 121

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 136	Preventive Health	2	0	0	2

Prerequisites: None

Corequisites: None

This course provides information on public school and community health issues at all levels and preventive measures for prevalent diseases in the schools. Topics include healthy lifestyles, disease prevention, child psychology, and holistic health. Upon completion, students should be able to present information to all age levels concerning health issues, disease prevention, and attainment of healthy lifestyles.

Code	Description	Lecture	Lab	Clinic	Credit
MED 140	Exam Room Procedures I	3	4	0	5

Prerequisites: None

Corequisites: MED 131

This course provides instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting with exams and treatment, patient education, preparation and administration of medications, EKG, vital signs, and medical emergencies. Upon completion, students should be able to demonstrate competence in exam room procedures.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MED 150	Laboratory Procedures I	3	4	0	5

Prerequisites: None

Corequisites: MED 121, MED 131

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 182	CPR First Aid and Emergency	1	2	0	2

Prerequisites: None

Corequisites: None

This course provides the basic knowledge and skills necessary to perform basic CPR, first aid, and medical emergency care related to the clinical, home, office, and recreational setting. Emphasis is placed on triage, assessment, and proper management of emergency care. Upon completion, students should be able to demonstrate basic CPR, first aid, and medical emergency care.

Code	Description	Lecture	Lab	Clinic	Credit
MED 183	Electronic Med Records I	3	2	3	5

Prerequisites: None

Corequisites: CIS 110, CIS 111 or OST 131

This course introduces students to the design and creation of Electronic Methods Records (EMR) using a variety of EMR models. Topics include historical background of electronic medical records, legal/ethical principles inherent to health-care information, patient flow, scheduling, call processing and tasking using the EMR. Upon completion, students should be able to discuss the history of EMR, identify emerging issues, apply ethical principles, and use basic modules of an EMR.

Code	Description	Lecture	Lab	Clinic	Credit
MED 232	Medical Insurance Coding	1	3	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 260	MED Clinical Practicum	0	0	15	5

Prerequisites: None

Corequisites: MED 262, MED 264

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 262	Clinical Perspectives	1	0	0	1

Prerequisites: None

Corequisites: MED 260, MED 264

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 264	Medical Assisting Overview	2	0	0	2

Prerequisites: None

Corequisites: MED 260, MED 262

This course provides an overview of the complete medical assisting curriculum. Emphasis is placed on all facets of medical assisting pertinent to administrative, laboratory, and clinical procedures performed in the medical environment. Upon completion, students should be able to demonstrate competence in the areas covered on the national certification examination for medical assistants.

Code	Description	Lecture	Lab	Clinic	Credit
MED 270	Symptomatology	2	2	0	3

Prerequisites: None

Corequisites: None

This course covers the study of disease symptoms and the appropriate actions taken by medical assistants in a medical facility in relation to these symptoms. Emphasis is placed on interviewing skills and appropriate triage, preparing patients for procedures, and screening test results. Upon completion, students should be able to recognize how certain symptoms relate to specific diseases, recognize emergency situations, and take appropriate actions

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MED 272	Drug Therapy	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 274	Diet Therapy/Nutrition	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MED 276	Patient Education	1	2	0	2

Prerequisites: None

Corequisites: None

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.

■ MARKETING AND RETAILING (MKT)

Code	Description	Lecture	Lab	Clinic	Credit
MKT 120	Principles of Marketing	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
MKT 123	Fundamentals of Selling	3	0	0	3

Prerequisites: None

Corequisites: None

This course is designed to emphasize the necessity of selling skills in a 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.

Code	Description	Lecture	Lab	Clinic	Credit
MKT 223	Customer Service	3	0	0	3

Prerequisites: None

Corequisites: None

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.

■ MUSIC (MUS)

Code	Description	Lecture	Lab	Clinic	Credit
MUS 110	Music Appreciation	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 111	Fundamentals of Music	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MUS 112	Introduction to Jazz	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 113	American Music	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 121	Music Theory I	3	2	0	4

Prerequisites: MUS 111

Corequisites: None

This course provides an in-depth introduction to melody, rhythm, and harmony. Emphasis is placed on fundamental melodic, rhythmic, and harmonic analysis, introduction to part writing, ear-training, and sight-singing. Upon completion, students should be able to demonstrate proficiency in the recognition and application of the above. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 122	Music Theory II	3	2	0	4

Prerequisites: MUS 121

Corequisites: None

This course is a continuation of studies begun in MUS 121. Emphasis is placed on advanced melodic, rhythmic, and harmonic analysis and continued studies in part-writing, ear-training, and sight-singing. Upon completion, students should be able to demonstrate proficiency in the recognition and application of the above. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 123	Music Composition	0	2	0	1

Prerequisites: MUS 111 or MUS 121

Corequisites: None

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. Upon completion, students should be able to create short musical works using appropriate musical notation. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 131	Chorus I	0	2	0	1

Prerequisites: Instructor's Consent

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 132	Chorus II	0	2	0	1

Prerequisites: MUS 131

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 141	Ensemble I	0	2	0	1

Prerequisites: Instructor's Consent

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MUS 142	Ensemble II	0	2	0	1

Prerequisites: MUS 141

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 151	Class Music I	0	2	0	1

Prerequisites: None

Corequisites: None

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. CCC offers this course in three different capacities: piano (P), voice (V), or guitar (G).*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 152	Class Music II	0	2	0	1

Prerequisites: MUS 151

Corequisites: None

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. CCC offers this course in three different capacities: piano (P), voice (V), or guitar (G).*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 161	Applied Music I	1	2	0	2
MUS 161A		1	0	0	1
MUS 161B		0	2	0	1

Prerequisites: Audition and Instructor's Consent

Corequisites: None

Fee: \$320

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 their specific instrument or voice); MUS 161B is two hours of supervised practice per week.

Code	Description	Lecture	Lab	Clinic	Credit
MUS 162	Applied Music II	1	2	0	2
MUS 162A		1	0	0	1
MUS 162B		0	2	0	1

Prerequisites: MUS 161

Corequisites: None

Fee: \$320

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.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MUS 181	Show Choir I	3	3	0	4

Prerequisites: Audition and instructor's consent

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 182	Show Choir II	3	3	0	4

Prerequisites: MUS 181; and Audition and instructor's consent

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 231	Chorus III	0	2	0	1

Prerequisites: MUS 132

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 232	Chorus IV	0	2	0	1

Prerequisites: MUS 231

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 251	Class Music III	0	2	0	1

Prerequisites: MUS 152

Corequisites: None

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. CCC offers this course in three different capacities: piano (P), voice (V), or guitar (G).*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 252	Class Music IV	0	2	0	1

Prerequisites: MUS 251

Corequisites: None

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. CCC offers this course in three different capacities: piano (P), voice (V), or guitar (G).*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
MUS 261	Applied Music III	1	2	0	2
MUS 261A		1	0	0	1
MUS 261B		0	2	0	1

Prerequisites: MUS 162

Corequisites: None

Fee: \$320

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.*

NOTE: This course is divided into two parts (MUS 261A and MUS 261B). MUS 261A is self-supporting (student pays a fee for one-on-one instruction in a specific instrument or voice); MUS 261B is two hours of supervised practice per week.

Code	Description	Lecture	Lab	Clinic	Credit
MUS 262	Applied Music IV	1	2	0	2
MUS 262A		1	0	0	1
MUS 262B		0	2	0	1

Prerequisites: MUS 261

Corequisites: None

Fee: \$320

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.*

NOTE: This course is divided into two parts (MUS 262A and MUS 262B). MUS 262A is self-supporting (student pays a fee for one-on-one instruction in a specific instrument or voice); MUS 262B is two hours of supervised practice per week.

Code	Description	Lecture	Lab	Clinic	Credit
MUS 281	Show Choir III	3	3	0	4

Prerequisites: MUS 182; and Audition and instructor's consent

Corequisites: None

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 pre-major and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
MUS 282	Show Choir IV	3	3	0	4

Prerequisites: MUS 281; and Audition and instructor's consent

Corequisites: None

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 pre-major and/or elective course requirement.*

■ NETWORKING TECHNOLOGY (NET)

Code	Description	Lecture	Lab	Clinic	Credit
NET 125	Networking Basics	1	4	0	3

Prerequisites: DRE 096 or ENG 085 or RED 080; or satisfactory reading placement score

Corequisites: None

This course introduces the networking field. Emphasis is placed on network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

Code	Description	Lecture	Lab	Clinic	Credit
NET 126	Routing Basics	1	4	0	3

Prerequisites: NET 125

Corequisites: None

This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
NET 225	Routing and Switching I	1	4	0	3

Prerequisites: NET 126

Corequisites: None

This course focuses on advanced IP addressing techniques, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, VLANs, STP, and VTP. Emphasis will be placed on application and demonstration of skills acquired in pre-requisite courses. Upon completion, students should be able to perform tasks related to VLSM, routing protocols, switching concepts and configuration, STP, VLANs, and VTP.

Code	Description	Lecture	Lab	Clinic	Credit
NET 226	Routing and Switching II	1	4	0	3

Prerequisites: NET 225

Corequisites: None

This course introduces WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, and additional case studies. Topics include network congestion problems, TCP/IP transport and network layer protocols, advanced routing and switching configuration, ISDN protocols, PPP encapsulation operations on a router. Upon completion, students should be able to provide solutions for network routing problems, identify ISDN protocols, and describe the Spanning Tree protocol.

Code	Description	Lecture	Lab	Clinic	Credit
NET 260	Internet Development and Support	3	0	0	3

Prerequisites: NET 110 or NET 125

Corequisites: NOS 230

This course covers issues relating to the development and implementation of Internet related tools and services. Topics include Internet organization, site registration, e-mail servers, Web servers, Web page development, legal issues, firewalls, multimedia, TCP/IP, service providers, FTP, list servers, and gateways. Upon completion, students should be able to develop and support the Internet services needed within an organization.

■ NETWORKING OPERATING SYSTEM (NOS)

Code	Description	Lecture	Lab	Clinic	Credit
NOS 110	Operating System Concepts	2	3	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095, or satisfactory reading placement score

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
NOS 120	Linux/UNIX Single User	2	2	0	3

Prerequisites: NOS 110

Corequisites: None

This course develops the necessary skills for students to develop both GUI and command line skills for using and customizing a Linux workstation. Topics include Linux file system and access permissions, GNOME Interface, VI editor, X Window System expression pattern matching, I/O redirection, network and printing utilities. Upon completion, students should be able to customize and use Linux systems for command line requirements and desktop productivity roles.

Code	Description	Lecture	Lab	Clinic	Credit
NOS 130	Windows Single User	2	2	0	3

Prerequisites: NOS 110

Corequisites: None

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment.

Code	Description	Lecture	Lab	Clinic	Credit
NOS 220	Linux/UNIX Admin I	2	2	0	3

Prerequisites: NOS 120

Corequisites: None

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.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
NOS 230	Windows Administration I	2	2	0	3

Prerequisites: NOS 130

Corequisites: None

This course covers the installation and administration of a Windows Server network operating system. Topics include managing and maintaining physical and logical devices, access to resources, the server environment, managing users, computers, and groups, and Managing/Implementing Disaster Recovery. Upon completion, students should be able to manage and maintain a Windows Server environment.

■ NURSING (NUR)

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 Associate Degree nursing Handbook or Practical Nursing Handbook for admission, progression and graduation requirements. Lab fees are required each semester.

Code	Description	Lecture	Lab	Clinic	Credit
NUR 101	Practical Nursing I	7	6	6	11

Prerequisites: Admission to the Practical Nursing program

Corequisites: None

This course introduces concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is placed on the nursing process, legal/ethical/professional issues, wellness/illness patterns, and basic nursing skills. Upon completion, students should be able to demonstrate beginning understanding of nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. The student will be introduced to basic concepts of nutrition and medication administration. *This is a diploma-level course.*

Code	Description	Lecture	Lab	Clinic	Credit
NUR 102	Practical Nursing II	8	0	12	12

Prerequisites: None

Corequisites: None

This course includes more advanced concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is placed on the nursing process, delegation, cost effectiveness, legal/ethical/professional issues, and wellness/illness patterns. Upon completion, students should be able to begin participating in the nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. *This is a diploma-level course.*

Code	Description	Lecture	Lab	Clinic	Credit
NUR 103	Practical Nursing III	6	0	12	10

Prerequisites: None

Corequisites: None

This course focuses on use of nursing/related concepts by practical nurses as providers of care/members of discipline in collaboration with health team members. Emphasis is placed on the nursing process, wellness/illness patterns, entry-level issues, accountability, advocacy, professional development, evolving technology, and changing health care delivery systems. Upon completion, students should be able to use the nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. *This is a diploma-level course.*

Code	Description	Lecture	Lab	Clinic	Credit
NUR 111	Introduction to Health Concepts	4	6	6	8

Prerequisites: Admission to Nursing Program

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
NUR 112	Health-Illness Concepts	3	0	6	5

Prerequisites: NUR 111

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
NUR 113	Family Health Concepts	3	0	6	5

Prerequisites: NUR 111

Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
NUR 114	Holistic Health Concepts	3	0	6	5

Prerequisites: NUR 111

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
NUR 211	Health Care Concepts	3	0	6	5

Prerequisites: NUR 111

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
NUR 212	Health System Concepts	3	0	6	5

Prerequisites: NUR 111

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
NUR 213	Complex Health Concepts	4	3	15	10

Prerequisites: NUR 111

Corequisites: NUR 112, NUR 113, NUR 114, NUR 211, and NUR 212

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.

Code	Description	Lecture	Lab	Clinic	Credit
NUR 214	Nursing Transition Concepts	3	0	3	4

Prerequisites: LPN in North Carolina, meet admission criteria

Corequisites: None

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.*

■ OPERATIONS MANAGEMENT (OMT)

Code	Description	Lecture	Lab	Clinic	Credit
OMT 110	Introduction to Operations Management	3	0	0	3

Prerequisites: None

Corequisites: None

This course provides an overview of the operations management field. Topics include production and operations planning, materials management, environmental health and safety, and quality management. Upon completion, students should be able to demonstrate an understanding of the operations management functions.

Code	Description	Lecture	Lab	Clinic	Credit
OMT 112	Materials Management	3	0	0	3

Prerequisites: None

Corequisites: None

This course covers the basic principles of materials management. Emphasis is placed on the planning, procurement, movement, and storage of materials. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques related to materials management. *This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
OMT 260	Issues in Operations Management	3	0	0	3

Prerequisites: ISC 121, ISC 210, OMT 112 and ISC 131 or ISC 132

Corequisites: None

This course presents a variety of topics that highlight contemporary problems and issues related to operations management. Emphasis is placed on production and operations planning, environmental health and safety, materials management, and quality systems. Upon completion, students should be able to demonstrate the ability to make decisions and resolve problems in an operations management environment. *This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.*

■ OFFICE SYSTEMS TECHNOLOGY (OST)

Code	Description	Lecture	Lab	Clinic	Credit
OST 131	Keyboarding	1	2	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
OST 134	Text Entry and Formatting	2	2	0	3

Prerequisites: OST 131

Corequisites: None

This course is designed to provide the 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 mailable documents and key timed writings at speeds commensurate with employability.

Code	Description	Lecture	Lab	Clinic	Credit
OST 136	Word Processing	1	2	0	3

Prerequisites: CIS 110, CIS 111 or CIS 113

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
OST 148	Medical Coding Billing and Insurance	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces fundamentals of medical coding, billing, and insurance. 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.

Code	Description	Lecture	Lab	Clinic	Credit
OST 149	Medical Legal Issues	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
OST 164	Text Editing Applications	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
OST 181	Introduction to Office Systems	2	2	0	3

Prerequisites: None

Corequisites: None

This course introduces the skills and abilities needed in today's office. Topics include effectively interacting with coworkers and the public, processing simple financial and informational documents, and performing functions typical of today's offices. Upon completion, students should be able to display skills and decision-making abilities essential for functioning in the total office context.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
OST 184	Records Management	2	2	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
OST 241	Medical Office Transcription I	1	2	0	2

Prerequisites: MED 121 or OST 141

Corequisites: None

This course introduces machine transcription techniques as applied to medical documents. Emphasis is placed on accurate transcription, proofreading, and use of reference materials as well as vocabulary building. Upon completion, students should be able to prepare accurate and usable transcripts of voice recordings in the covered specialties.

Code	Description	Lecture	Lab	Clinic	Credit
OST 243	Medical Office Simulation	2	2	0	3

Prerequisites: OST 148

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
OST 247	CPT Coding in the Medical Office	1	2	0	2

Prerequisites: MED 121 or OST 141

Corequisites: None

This course provides in-depth coverage of procedural coding. Emphasis is placed on CPT and HCPCS rules for Medicare billing. Upon completion, students should be able to properly code procedures and services performed by physicians in ambulatory settings.

Code	Description	Lecture	Lab	Clinic	Credit
OST 248	Diagnostic Coding	1	2	0	2

Prerequisites: MED 121 or OST 141

Corequisites: None

This course provides an in-depth study of diagnostic coding for the medical office. Emphasis is placed on ICD-9-CM codes used on superbills and other encounter forms. Upon completion, students should be able to apply the principles of diagnostic coding in the physician's office.

Code	Description	Lecture	Lab	Clinic	Credit
OST 281	Emerging Issues in Medical Offices	3	0	0	3

Prerequisites: None

Corequisites: None

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.

■ PHYSICAL EDUCATION (PED)

Code	Description	Lecture	Lab	Clinic	Credit
PED 110	Fit and Wellness for Life	1	2	0	2

Prerequisites: None

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
PED 117	Weight Training I	0	3	0	1

Prerequisites: None

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
PED 118	Weight Training II	0	3	0	1

Prerequisites: PED 117

Corequisites: None

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 pre-major and/or elective course requirement.*

Code	Description	Lecture	Lab	Clinic	Credit
PED 120	Walking for Fitness	0	3	0	1

Prerequisites: None

Corequisites: None

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.*

PHILOSOPHY (PHI)

Code	Description	Lecture	Lab	Clinic	Credit
PHI 215	Philosophical Issues	3	0	0	3

Prerequisites: ENG 111

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
PHI 240	Introduction to Ethics	3	0	0	3

Prerequisites: ENG 111

Corequisites: None

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.*

PHARMACY TECHNOLOGY (PHM)

Pharmacy Technology is a selective admissions program. Selective admission into D45580 (Diploma in Pharmacy Technology) requires adherence to the program of study by successfully completing all courses as outlined for progression throughout the curriculum. Please refer to the Diploma in Pharmacy Technology Handbook for admission, progression and graduation requirements.

Code	Description	Lecture	Lab	Clinic	Credit
PHM 110	Introduction to Pharmacy	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces pharmacy practice and the technician's role in a variety of pharmacy settings. Topics include medical terminology and abbreviations, drug delivery systems, law and ethics, prescription and medication orders, and the health care system. Upon completion, students should be able to explain the role of pharmacy technicians, read and interpret drug orders, describe quality assurance, and utilize pharmacy references.

Code	Description	Lecture	Lab	Clinic	Credit
PHM 111	Pharmacy Practice I	3	3	0	4

Prerequisites: None

Corequisites: PHM 110 and PHM 115

This course provides instruction in the technical procedures for preparing and dispensing drugs in the hospital and retail settings under supervision of a registered pharmacist. Topics include drug packaging and labeling, out-patient dispensing, hospital dispensing procedures, controlled substance procedures, inventory control, and non-sterile compounding. Upon completion, students should be able to perform basic supervised dispensing techniques in a variety of pharmacy settings.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
PHM 115	Pharmacy Calculations	3	0	0	3

Prerequisites: None

Corequisites: None

This course provides an introduction to the metric, avoirdupois, and apothecary systems of measurement and the calculations used in pharmacy practice. Topics include ratio and proportion, dosage determinations, percentage preparations, reducing and enlarging formulas, dilution and concentration, aliquots, specific gravity and density, and flow rates. Upon completion, students should be able to correctly perform calculations required to properly prepare a medication order.

Code	Description	Lecture	Lab	Clinic	Credit
PHM 118	Sterile Products	3	3	0	4

Prerequisites: PHM 110 and PHM 111

Corequisites: None

This course provides an introduction to intravenous admixture preparation and other sterile products, including total parenteral nutrition and chemotherapy. Topics include aseptic techniques; facilities, equipment, and supplies utilized in admixture preparation; incompatibility and stability; laminar flow hoods; immunizations and irrigation solutions; and quality assurance. Upon completion, students should be able to describe and demonstrate the steps involved in preparation of intermittent and continuous infusions, total parenteral nutrition, and chemotherapy.

Code	Description	Lecture	Lab	Clinic	Credit
PHM 120	Pharmacology I	3	0	0	3

Prerequisites: None

Corequisites: None

This course introduces the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include nutritional products, blood modifiers, hormones, diuretics, cardiovascular agents, respiratory drugs, and gastrointestinal agents. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names.

Code	Description	Lecture	Lab	Clinic	Credit
PHM 125	Pharmacology II	3	0	0	3

Prerequisites: PHM 120

Corequisites: None

This course provides a continuation of the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include autonomic and central nervous system agents, anti-inflammatory agents, and anti-infective drugs. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names.

Code	Description	Lecture	Lab	Clinic	Credit
PHM 132	Pharmacy Clinical	0	0	6	2

Prerequisites: None

Corequisites: None

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers.

Code	Description	Lecture	Lab	Clinic	Credit
PHM 135	Pharmacy Clinical	0	0	15	5

Prerequisites: None

Corequisites: None

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers.

Code	Description	Lecture	Lab	Clinic	Credit
PHM 140	Trends in Pharmacy	2	0	0	2

Prerequisites: None

Corequisites: None

This course covers the major issues, trends, and concepts in contemporary pharmacy practice. Topics include professional ethics, continuing education, job placement, and the latest developments in pharmacy technician practice. Upon completion, students should be able to demonstrate a basic knowledge of the topics discussed.

Code	Description	Lecture	Lab	Clinic	Credit
PHM 165	Pharmacy Prof Practice	2	0	0	2

Prerequisites: None

Corequisites: None

This course provides a general overview of all aspects of pharmacy technician practice. Emphasis is placed on pharmacy law, calculations, compounding, pharmacology, and pharmacy operations. Upon completion, students should be able to demonstrate competence in the areas required for the Pharmacy Technician Certification Examination.

Course Descriptions

■ PHYSICS (PHY)

Code	Description	Lecture	Lab	Clinic	Credit
PHY 110	Conceptual Physics	3	0	0	3

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050; or MAT 060 and MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores.

Corequisites: PHY 110A

Fee: \$15

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 is a Universal General Education Transfer Component (UGETC) course.*

Code	Description	Lecture	Lab	Clinic	Credit
PHY 110A	Conceptual Physics Lab	0	2	0	1

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050; or MAT 060 and MAT 070; and DRE 098 or DRE 099 or RED 090 or ENG 095; or satisfactory math and reading placement scores.

Corequisites: PHY 110

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 is a Universal General Education Transfer Component (UGETC) course.*

Code	Description	Lecture	Lab	Clinic	Credit
PHY 151	College Physics I	3	2	0	4

Prerequisites: MAT 171; and DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

Fee: \$15

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 general education requirement in natural sciences/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.*

Code	Description	Lecture	Lab	Clinic	Credit
PHY 152	College Physics II	3	2	0	4

Prerequisites: PHY 151

Corequisites: None

Fee: \$15

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 general education requirement in natural sciences/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.*

Code	Description	Lecture	Lab	Clinic	Credit
PHY 251	General Physics I	3	3	0	4

Prerequisites: MAT 271

Corequisites: MAT 272

Fee: \$15

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 general education requirement in natural sciences/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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
PHY 252	General Physics II	3	3	0	4

Prerequisites: MAT 272 and PHY 251

Corequisites: None

Fee: \$15

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 general education requirement in natural sciences. 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.*

POLITICAL SCIENCE (POL)

Code	Description	Lecture	Lab	Clinic	Credit
POL 120	American Government	3	0	0	3

Prerequisites: DRE 097 or RED 080 or ENG 085

or satisfactory reading placement score

Corequisites: DRE 098 or DRE 099

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.*

PLASTICS (PLA)

Code	Description	Lecture	Lab	Clinic	Credit
PLA 110	Introduction to Plastics	2	0	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
PLA 162	Plastics Manufacturing Processes	2	3	0	3

Prerequisites: None

Corequisites: None

This course covers manufacturing processes including machining, sawing, routing, drilling, taping, turning, thermoforming, molding, extrusion, laminating, reinforcing, expansion, casting, coasting, assembly, and finishing. Emphasis is placed on the process and equipment requirements, special operational concerns, setup, operation, tooling, capability limitations, maintenance, and safety. Upon completion, students should be able to select the correct process for the material required and discuss machine operation, setup, tooling, safety, and scrap recycling.

PSYCHOLOGY (PSY)

Code	Description	Lecture	Lab	Clinic	Credit
PSY 150	General Psychology	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095

or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
PSY 237	Social Psychology	3	0	0	3

Prerequisites: PSY 150 or SOC 210

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
PSY 239	Psychology of Personality	3	0	0	3

Prerequisites: PSY 150

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
PSY 241	Developmental Psychology	3	0	0	3

Prerequisites: PSY 150

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
PSY 281	Abnormal Psychology	3	0	0	3

Prerequisites: PSY 150

Corequisites: None

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.*

■ PHYSICAL THERAPY (PTA)

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 110	Intro to Physical Therapy	2	3	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 120	Functional Anatomy	1	6	0	3

Prerequisites: None

Corequisites: PTA 140

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 130	Physical Therapy Proc I	1	6	0	3

Prerequisites: None

Corequisites: PTA 110

This course includes concepts of injury and repair and documentation methods. Emphasis is placed on physiological effects, indications, contraindications, and skilled applications of selected therapeutic modalities. Upon completion, students should be able to safely, correctly, and effectively apply the emphasized techniques and procedures with understanding of correct documentation.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
PTA 140	Therapeutic Exercise	2	6	0	4

Prerequisites: None

Corequisites: PTA 120

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 150	Physical Therapy Proc II	1	6	0	3

Prerequisites: PTA 130

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 160	Physical Therapy Proc III	2	3	0	3

Prerequisites: PTA 150

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 170	Pathophysiology	3	0	0	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 182	PTA Clinical Ed I	0	0	6	2

Prerequisites: None

Corequisites: None

This course provides a short-term affiliation for planned learning experiences and practice under supervision. Emphasis is placed on basis skills including patient transfers, elementary exercise programs, and other learned skills. Upon completion, students should be able to demonstrate satisfactory performance as an introductory-level physical therapist assistant student.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 210	PTA Clinical Ed II	0	0	6	2

Prerequisites: PTA 182

Corequisites: None

This course provides a short-term affiliation for planned learning experiences and practice under supervision. Emphasis is placed on goniometric analysis, intermediate-level exercise regimens, medications, and pathological conditions. Upon completion, students should be able to demonstrate satisfactory performance as an intermediate-level physical therapist assistant student.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 212	Health Care/Resources	2	0	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 220	PTA Clinical Ed III	0	0	24	8

Prerequisites: PTA 210

Corequisites: None

This course provides a long-term affiliation for planned learning experiences and practice under supervision. Emphasis is placed on assessment, communication, and time management of the available patient case load including manual muscle testing and dovetailing of multiple treatments. Upon completion, students should be able to demonstrate a satisfactory performance as a pre-entry level practitioner

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
PTA 222	Professional Interactions	2	0	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 240	Physical Therapy Proc IV	3	6	0	5

Prerequisites: PTA 160

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 252	Geriatrics for the PTA	2	0	0	2

Prerequisites: PTA 140, PTA 160, PTA 210 and PTA 240

Corequisites: PTA 220, PTA 222 and PTA 254

This course is designed to provide more in-depth knowledge of physical therapy care for the geriatric individual. Topics include health promotion, wellness programs, and medical problems specific to the elderly. Upon completion, students should be able to discuss and describe special problems and programs for the elderly.

Code	Description	Lecture	Lab	Clinic	Credit
PTA 254	Pediatrics for the PTA	0	3	0	1

Prerequisites: PTA 140, PTA 160, PTA 210 and PTA 240

Corequisites: PTA 220, PTA 222 and PTA 252

This course provides an in-depth study of pediatric dysfunction and rehabilitation techniques. Topics include severe and profound attention deficit disorder, sensory integration, and rehabilitation in the school setting. Upon completion, students should be able to discuss selected pediatric dysfunctions and demonstrate specialized rehabilitation techniques.

READING (RED)

Beginning in Fall 2013, RED 080 and RED 090 are no longer active courses. However, these RED courses are used as course prerequisites.

Code	Description	Lecture	Lab	Clinic	Credit
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This course (RED 080) is no longer offered.

RED 080	Introduction to College Reading	3	2	0	4
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Prerequisites: RED 070 or ENG 075;

or satisfactory reading score

Corequisites: None

This course introduces effective reading and inferential thinking skills in preparation for RED 090. Emphasis is placed on vocabulary, comprehension, and reading strategies. Upon completion, students should be able to determine main ideas and supporting details, recognize basic patterns of organization, draw conclusions, and understand vocabulary in context. *This course does not satisfy the developmental reading prerequisite for ENG 111 or ENG 111A.*

Code	Description	Lecture	Lab	Clinic	Credit
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This course (RED 090) is no longer offered.

RED 090	Improved College Reading	3	2	0	4
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Prerequisites: RED 080 or ENG 085;

or satisfactory reading score

Corequisites: None

This course is designed to improve reading and critical thinking skills. Topics include vocabulary enhancement; extracting implied meaning; analyzing author's purpose, tone, and style; and drawing conclusions and responding to written material. Upon completion, students should be able to comprehend and analyze college-level reading material. *This course satisfies the developmental reading prerequisite for ENG 111 or ENG 111A.*

RELIGION (REL)

Code	Description	Lecture	Lab	Clinic	Credit
REL 110	World Religions	3	0	0	3

Prerequisites: DRE 097 or RED 080 or ENG 085

or satisfactory reading placement score

Corequisites: DRE 098 or DRE 099

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
REL 211	Introduction to Old Testament	3	0	0	3

Prerequisites: DRE 097 or RED 080 or ENG 085
or satisfactory reading placement score

Corequisites: DRE 098 or DRE 099

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.*

Code	Description	Lecture	Lab	Clinic	Credit
REL 212	Introduction to New Testament	3	0	0	3

Prerequisites: DRE 097 or RED 080 or ENG 085
or satisfactory reading placement score

Corequisites: DRE 098 or DRE 099

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.*

■ INFORMATION SYSTEMS SECURITY (SEC)

Code	Description	Lecture	Lab	Clinic	Credit
SEC 110	Security Concepts	2	2	0	3

Prerequisites: CTI 120

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
SEC 150	Secure Communications	2	2	0	3

Prerequisites: SEC 110 and NET 110 or NET 125

Corequisites: None

This course provides an overview of current technologies used to provide secure transport of information across networks. Topics include data integrity through encryption, Virtual Private Networks, SSL, SSH, and IPsec. Upon completion, students should be able to implement secure data transmission technologies.

Code	Description	Lecture	Lab	Clinic	Credit
SEC 160	Secure Administration I	2	2	0	3

Prerequisites: SEC 110 and NET 110 or NET 125

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
SEC 260	Secure Administration II	2	2	0	3

Prerequisites: SEC 160

Corequisites: None

This course provides the skills necessary to design and implement information security controls. Topics include advanced networking and TCP/IP concepts, network vulnerability analysis, and monitoring. Upon completion, students should be able to distinguish between normal and anomalous network traffic, identify common network attack patterns, and implement security solutions.

■ SOCIOLOGY (SOC)

Code	Description	Lecture	Lab	Clinic	Credit
SOC 210	Introduction to Sociology	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095
or satisfactory reading placement score

Corequisites: None

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.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
SOC 213	Sociology of the Family	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
SOC 220	Social Problems	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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.*

Code	Description	Lecture	Lab	Clinic	Credit
SOC 225	Social Diversity	3	0	0	3

Prerequisites: DRE 098 or DRE 099 or RED 090 or ENG 095 or satisfactory reading placement score

Corequisites: None

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)

Code	Description	Lecture	Lab	Clinic	Credit
SPA 111	Elementary Spanish I	3	0	0	3

Prerequisites: DRE 097; or ENG 080 and RED 080; or ENG 085 and ENG 085A; or satisfactory writing and reading 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education requirement in humanities/fine arts.*

Code	Description	Lecture	Lab	Clinic	Credit
SPA 112	Elementary Spanish II	3	0	0	3

Prerequisites: SPA 111

Corequisites: SPA 182

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.*

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
SPA 182	Spanish Lab 2	0	2	0	1

Prerequisites: SPA 181

Corequisites: SPA 112

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.*

Code	Description	Lecture	Lab	Clinic	Credit
SPA 211	Intermediate Spanish I	3	0	0	3

Prerequisites: SPA 112

Corequisites: None

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.*

■ TRANSPORTATION TECHNOLOGY (TRN)

Code	Description	Lecture	Lab	Clinic	Credit
TRN 110	Intro to Transport Tech	1	2	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
TRN 120	Basic Transport Electricity	4	3	0	5

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
TRN 120A	Basic Transport Electrical Lab	0	3	0	1

Prerequisites: None

Corequisites: TRN 120

This course provides a lab that allows students to enhance their understanding of electrical components and circuits used in the transportation industry. Topics include inspection, diagnosis, and repair of electrical components and circuits using appropriate service information for specific transportation systems. Upon completion, students should be able to diagnose and service electrical components and circuits used in transportation systems.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
TRN 140	Transport Climate Control	1	2	0	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
TRN 140A	Transport Climate Control Lab	1	2	0	2

Prerequisites: None

Corequisites: TRN 140

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..

Code	Description	Lecture	Lab	Clinic	Credit
TRN 145	Adv Transport Electronics	2	3	0	3

Prerequisites: TRN 120

Corequisites: None

Fee:

This course covers advanced transportation electronic systems including programmable logic controllers, on-board data networks, telematics, high voltage systems, navigation, collision avoidance systems and electronic accessories. Topics include interpretation of wiring schematics, reprogramming PLC's, diagnosing and testing data networks and other electronic concerns. Upon completion, students should be able to reprogram PLC's, diagnose and test data networks and other electronic concerns, and work safely with high voltage systems.

Code	Description	Lecture	Lab	Clinic	Credit
TRN 170	PC Skills for Transport	1	2	0	2

Prerequisites: None

Corequisites: None

This course introduces students to personal computer literacy and Internet literacy with an emphasis on the transportation service industry. Topics include service information systems, management systems, computer-based systems, and PC-based diagnostic equipment. Upon completion, students should be able to access information pertaining to transportation technology and perform word processing.

■ WORK-BASED LEARNING (WBL)

Code	Description	Lecture	Lab	Work	Credit
WBL 110	World of Work	1	0	0	1

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Work	Credit
WBL 111	Work-Based Learning I	0	0	10	1

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Work	Credit
WBL 112	Work-Based Learning I	0	0	20	2

Prerequisites: None

Corequisites: None

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Course Descriptions

Code	Description	Lecture	Lab	Work	Credit
WBL 113	Work-Based Learning I	0	0	30	3

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Work	Credit
WBL 121	Work-Based Learning II	0	0	10	1

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Work	Credit
WBL 122	Work-Based Learning II	0	0	20	2

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Work	Credit
WBL 131	Work-Based Learning III	0	0	10	1

Prerequisites: None

Corequisites: None

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.

WEB TECHNOLOGIES (WEB)

Code	Description	Lecture	Lab	Clinic	Credit
WEB 110	Internet/Web Fundamentals	2	2	0	3

Prerequisites: DRE 096 or ENG 085 or RED 080; or satisfactory reading placement score

Corequisites: None

This course introduces basic markup language, various navigational tools and services of the Internet. Topics include creating web pages, using Internet protocols, search engines, file compression/decompression, FTP, E-mail, listservers, and other related topics. Upon completion, students should be able to deploy a web-site created with basic markup language, retrieve/decompress files, e-mail, FTP, and utilize other Internet tools.

Code	Description	Lecture	Lab	Clinic	Credit
WEB 115	Web Markup and Scripting	2	2	0	3

Prerequisites: CTI 110 or CSC 151

Corequisites: CIS 115

This course introduces client-side Internet programming using the current W3C recommended presentation markup language and supporting elements. Topics include site management and development, markup elements, stylesheets, validation, accessibility, standards, browsers, and basic JavaScripting. Upon completion, students should be able to hand-code web pages with various media elements according to current markup standards and integrate them into websites.

Code	Description	Lecture	Lab	Clinic	Credit
WEB 151	Mobile Application Dev I	2	2	0	3

Prerequisites: DRE 098 or 099 or RED 090 or ENG 095 and DMA 010, DMA 020, DMA 030 and DMA 040 or MAT 070; or satisfactory reading and math placement scores

Corequisites: None

This course introduces students to programming technologies, design and development related to mobile applications. Topics include accessing device capabilities, industry standards, operating systems, and programming for mobile applications using an OS Software Development Kit (SDK). Upon completion, students should be able to create basic applications for mobile devices.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
WEB 210	Web Design	2	2	0	3

Prerequisites: CTI 110 or WEB 110

Corequisites: None

This course introduces intermediate to advanced web page design techniques. Topics include effective use of graphics, fonts, colors, navigation tools, advanced markup language elements, as well as a study of bad design techniques. Upon completion, students should be able to employ advanced design techniques to create high impact and highly functional web pages.

Code	Description	Lecture	Lab	Clinic	Credit
WEB 215	Advanced Markup and Scripting	2	2	0	3

Prerequisites: WEB 115

Corequisites: None

This course covers advanced programming skills required to design Internet applications. Emphasis is placed on programming techniques required to support network applications. Upon completion, students should be able to design, code, debug, and document network-based programming solutions to various real-world problems using an appropriate programming language.

■ WELDING (WLD)

Code	Description	Lecture	Lab	Clinic	Credit
WLD 110	Cutting Processes	1	3	0	2

Prerequisites: None

Corequisites: None

Fee: \$30

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 112	Basic Welding Processes	1	3	0	2

Prerequisites: None

Corequisites: None

Fee: \$30

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 115	SMAW (Stick) Plate	2	9	0	5
WLD 115A		1	3	0	2
WLD 115B		1	6	0	3

Prerequisites: None

Corequisites: None

Fee: \$15 for WLD 115A; \$15 for WLD 115B;
\$30 for WLD 115

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 116	SMAW (Stick) Plate/Pipe	1	9	0	4
WLD 116A		1	6	0	3
WLD 116B		0	3	0	1

Prerequisites: WLD 115

Corequisites: None

Fee: \$15 for WLD 116A; \$15 for WLD 116B;
\$30 for WLD 116

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD 121A		1	3	0	2
WLD 121B		1	3	0	2

Prerequisites: None

Corequisites: None

Fee: \$15 for WLD 121A; \$15 for WLD 121B;
\$30 for WLD 121

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

Course Descriptions

Code	Description	Lecture	Lab	Clinic	Credit
WLD 122	GMAW (MIG) Plate/Pipe	1	6	0	3

Prerequisites: WLD 121

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 131	GTAW (TIG) Plate	2	6	0	4

Prerequisites: None

Corequisites: None

Fee: \$30

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	3

Prerequisites: WLD 131

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 141	Symbols and Specifications	2	2	0	3

Prerequisites: None

Corequisites: None

Fee: \$30

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 151	Fabrication I	2	6	0	4

Prerequisites: None

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 221	GMAW (MIG) Pipe	1	6	0	3

Prerequisites: WLD 122

Corequisites: None

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 GMAW welds to applicable codes on pipe with prescribed electrodes in various positions.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 231	GTAW (TIG) Pipe	1	6	0	3

Prerequisites: WLD 132

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 251	Fabrication II	1	6	0	3

Prerequisites: WLD 151

Corequisites: None

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.

Code	Description	Lecture	Lab	Clinic	Credit
WLD 261	Certification Practices	1	3	0	2

Prerequisites: WLD 115, WLD 121, and WLD 131

Corequisites: None

Fee: \$30

This course covers certification requirements for industrial welding processes. Topics include techniques and certification requirements for pre-qualified joint geometry. Upon completion, students should be able to perform welds on carbon steel plate and/or pipe according to applicable codes.

Workforce Development

Workforce Development Course Info

Introduction

Workforce Development offers a wide variety of non-credit courses and programs. Curriculum credit will not be awarded, but in some programs continuing education units (CEUs) are awarded.

Programs are developed and offered based on the community's expressed needs in workforce/occupational training, upgrading of work skills, vocational improvement, cultural advancement or creative personal interest. 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 release documents from the public school system, unless they have been out of the public school system for six months.

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 Adult Basic Education, Adult High School Courses, or job related courses for law enforcement, firemen, and rescue personnel for those that qualify. The fee charged for Workforce Development/Occupational Courses is determined by the North Carolina State Board Code. A charge may be necessary in some courses for class supplies or liability 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 held on campus and in areas away from the Craven Community College campus 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) credit. Some Occupational/Workforce courses require 100% student attendance in order to receive CEUs credit. 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 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 do the curriculum programs. Classes in any subject 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 only 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-Cherry Point Campus offices.

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

The student will be eligible for a 100 percent refund if an applicable class is canceled due to insufficient enrollment.

The student will be eligible for a 75 percent 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 percent point of the scheduled hours of the class.

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

All registration fee(s) for the semester/term may be refunded to the estate of the deceased if the student, having paid the required registration fee for a semester/term, dies during that semester/term (prior to or on the last day of examinations of the semester/term).

Students in all other Workforce Development classes WILL NOT BE ELIGIBLE for refunds unless the class is canceled due to insufficient enrollment.

Transcripts

All student records are held in confidence by the College. Transcripts will be made available only upon request of the student. A statement authorizing release must be signed by the student before a transcript will be sent to other colleges, employers, or other agencies. Authorization for release of transcript forms is available in the Workforce Development Center. There will be a five dollar fee for each transcript requested.

Certificates

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

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. Not all courses have the need to be measured by the CEU; however, CEUs are awarded in most Workforce/Occupational courses. Otherwise, the functions of organization, instruction, and record keeping are performed according to CEU standards in programs of continuing education.

LIFETIME LEARNING CENTER

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.
- International trips for the exploration of history and world cultures.

HUMAN RESOURCES DEVELOPMENT (HRD) Employment Readiness Program

The Human Resources Development/Employment Readiness Program provides short-term pre-vocational training and counseling for unemployed, underemployed, those laid off or those looking to make a career change, enter the workforce or begin new careers. The curriculum focuses on how to find and keep a job along with career explorations. This includes teaching 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. Students in an HRD Program enroll for a period of instruction that averages from one to six weeks.

Workforce Development

CAREER COURSES

Occupational Extension/Workforce Development

This area of training is devoted to assisting the organization to enhance or improve its operations by training the workforce in the skills deemed appropriate after analyzing processes, skill levels, and training methodologies.

You can learn new job skills or upgrade your current knowledge and ability through Craven's training programs. We offer a wide variety of courses, whether it is traditional or online. 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 Marine Corps Bases 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.

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 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 services 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.

Health Services

Craven Community College offers a wide variety of health related courses and training 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 and the growing needs of the health care field.

Workforce Development health care programs provide courses for those who need to train, re-train, 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.

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.

CUSTOMIZED TRAINING

The Customized Training Program supports the economic development efforts of the State of North Carolina by providing education and training opportunities for eligible businesses and industries.

The Customized Training Program is designed to make a difference in an organization's bottom line, whether the organization is creating jobs, investing in new machinery and equipment, or streamlining processes for efficiency.

Customized Training Program resources may support training needs assessment, instructional design, development and delivery. With our team of experts, we create customized media development, including process manuals, orientation and process DVDs and interactive learning solutions. We offer a proven design process that is repeatable and ensures the development of high-quality learning solutions including classroom, lab and on-the-job training, and computer-based interactive programs and immersive 3-D simulation.

SMALL BUSINESS CENTER

The objective of Craven Community College's Small Business Center is to increase the success rate and the number of viable small businesses in Craven County by providing high quality, readily accessible assistance to prospective and existing small businesses.

A Small Business Resource Center is located at the College's New Bern campus. The Havelock campus also has a limited Small Business Center that partners with the Military Business Center in the Lewis B. Redd Building. The Centers provide free computer and Internet access and a variety of small business resources, including specialized software and multimedia tools, along with small business books, magazines and government resources.

MILITARY BUSINESS CENTER

The North Carolina Military Business Center (NCMBC) is an operational arm of the Small Business Center of Craven Community College. The Military Business Center is dedicated to assisting Craven County businesses in the pursuit of defense-related work. For those that own a small business and would like to expand sales and grow business, the Military Business Center is designed to help. The MBC help businesses increase market share and improve profitability through the almost endless opportunities to procure business with the U.S. Government. The MBC can help provide assistance with: Registering your business to receive information about potential government contracting opportunities; targeting specific opportunities; understanding contracting paperwork; and developing proposals to bid on military contracts.

One tool of the NCMBC is MatchForce.org, a multi-functional website that serves as a gateway for individuals, businesses, and government purchasing officials. MatchForce.org automatically matches registered North Carolina businesses to government contracts, government purchasers to local suppliers, and job seekers to North Carolina jobs. Businesses, government contracting officials, government purchase card holders, and job seekers can register, post, search and receive opportunities and immediate results.

BASIC SKILLS/LITERACY PROGRAMS

Adult Basic Education (ABE)

Adult Basic Education (ABE) is a program of instruction designed for adults who need to improve their reading, writing, speaking, or computational skills to function more effectively in society or in the workplace. ABE students function below the high school level.

Adult High School (AHSD)

Adult High School (AHSD) is a program designed to help students earn their adult high school diploma. Students must complete a minimum of 20 credits, including required credits, to earn their diploma. We offer three ways to earn your high school diploma: Internet courses, small group classes and a self-paced Learning Lab environment. Registration, placement test and orientation required.

Compensatory Education (CED)

Compensatory Education (CED) is a program designed specifically for adults with intellectual disabilities. The focus of the program is on helping the individual become as independent as possible through acquiring basic life skills needed to function successfully in daily living.

Distance Education

Available through the Internet. This program allows you to work primarily at home on ABE/Pre-high school equivalency/Pre-Adult High School, high school equivalency and Adult High School Diploma.

Career and College Readiness

English as a Second Language (ESL)

English as a Second Language (ESL) is a program designed for adults whose native language is not English. Instruction focuses on English skills which will enable students to interact effectively in the community and in the workplace. Our classes are designed to provide reading, writing, speaking and basic living skills to students with a limited English-speaking background. Interested students should attend the class that is convenient for them. Registration and assessment will be completed at this time.

El inglés como un segundo idioma (ESL)

El programa de ESL es para los estudiantes adultos cuya lengua materna no es el inglés. La instrucción se concentra en las habilidades del inglés que les permitirán a los estudiantes interactuar efectivamente en la comunidad y en los lugares de trabajo. Las clases son completamente gratis. La registraci3n es abierta; venga y regístrese en las clases en cualquier momento durante el semestre. También tenemos cursos en video y por la Internet para tomar en la comodidad de su hogar.

High School Equivalency

High school equivalency is a program designed to help students pass the official high school equivalency exam. The exam consists of five parts: Writing, Reading, Social Studies, Science and Mathematics. Students who pass the high school equivalency receive a high school equivalency diploma.

GED Family Literacy Programs

The Even Start Family Literacy Program provides educational opportunities for children and their parents/guardians by integrating early childhood education and adult education into a unified program. Adults may study basic math and reading classes and also study to take the high school equivalency test. In addition, the program includes transportation to school, breakfast and lunch. Children newborn to 5 years of age may attend.

Basic Skills Program

The mission of the Basic Skills Program is to provide educational opportunities for adults 16 years or older who are out of school. The program addresses the needs of adults who do not have a high school diploma or who want to improve their basic education skills to function more effectively in society. The Basic Skills Program of Craven Community College (CCC) offers a wide variety of classes at on-campus and off-campus sites throughout Craven County. Classes are offered during the day, afternoon and evening. All classes are free! Students who are 16 or 17 years old need special permission from a parent/guardian and the school district before enrolling in any Basic Skills Program.

Orientation sessions for ABE, High School Equivalency, and AHSD Programs

Orientation sessions are required for all of our new students. During our orientation sessions, students will receive details about the different programs and classroom options available. Additionally, students will complete an assessment to determine their academic skill levels and to receive a referral based on their skill levels, goals and time commitments.

Learning Labs

The Learning Labs provide a self-paced learning environment where students can utilize computers, text books, videos and other resources. An instructor is always present to teach small groups or to answer individual questions.

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AAS – Craven Community College

Jasmine Roach
Accounting Assistant-Cashier
BS – North Carolina Agricultural and Technical
State University
MS – Michigan State University

Cindy L. Russo
Senior Administrative Assistant – Career Programs
AAS – Craven Community College

Matthew C. Salerno
Information Systems Coordinator
AAS – Craven Community College

Yasmin Santiago
Senior Administrative Assistant – Institutional
Effectiveness
BS – Georgetown University

Colleagues

Jeffrey Schulze
Workforce Development Coordinator II
BS – Bloomsburg University of Pennsylvania

Kisha B. Simpson
Bursar
BS – Methodist University

Sabra J. Smith
Payroll and Benefits Specialist
AAS – Craven Community College

Holly J. Spencer
Accountant/Grants/Special Projects
AAS – College of the Albemarle

Jonathan W. Stephens
Workforce Development Coordinator II-EMS
Programs
AAS – Carteret Community College

Pandora D. Strickland
Administrative Assistant-Facilities
AGE – Craven Community College

Gladys L. Suggs
Executive Assistant to the Executive Vice President
of Learning and Student Success
AA – Craven Community College
BS – Mount Olive College

Jackie R. Thomas
Coordinator of Security Services
AAS – Carteret Community College

Katherine Tuttle
Human Resources Technician
BA – University of Maryland

Carolyn S. Ward
Financial Aid Advisor II
BS – Park University

Chris Watercott
Accountant-Budget/Operations
BS – St. Cloud State University

Charlene White
Accounting Assistant – Accounts Payable
AA – Craven Community College

Sarah E. Whitford
Career Transfer Center Coordinator
BS – Mount Olive College
MS – Capella University

Keith P. Williams
Workforce Development Coordinator II – Service
Programs
Bachelor of Ministry – Omega Bible Institute and
Seminary

Michael Williams
Director of Facilities

Kimberly J. Zaccardelli
Workforce Development Coordinator

Public Radio East

Kelly Y. Batchelor
Broadcast Supervisor
AA – Lenoir Community College

Jared T. Brumbaugh
Producer-Down East Journal
AAS – Craven Community College

Michael R. Foster
Business Account Executive

Jill McGuire
Assistant General Manager
BA – Southern Connecticut University

George W. Olsen
Producer-ATC Host
BA – University of South Carolina

Hester W. Segar
Membership Coordinator
AAS – Pamlico Community College

Charles A. Wethington
General Manager
AAS – Lenoir Community College

Craven Early College

Amanda Barr
Math Educator
BA, MA – West Virginia University

Todd Bradley
Dean of Craven Early College, H.S.
BA – University of North Carolina Chapel Hill
MA – East Carolina University

Alaina Casebolt
Social Studies Educator
BS – East Carolina University

Allison Edwards
College Readiness - Partnership Coordinator
BA – Meredith College

Mary Gardner
Math Educator
BS – University of North Carolina Pembroke

Courtney Hardy
Science Educator

Theresa Heath
Technology Specialist
AA – Craven Community College

Andrinika Howard
Workforce Development
BS – North Carolina A & T

Bethany Kenyon
Science Educator
BS – Slippery Rock University
MS – Slippery Rock University

Angela Kitchin
English Educator
BS – Lindsey Wilson College
MA – University of North Carolina Greensboro

Linda Meads
Exceptional Children

Jessica McQuaig
School Counselor
BS – North Carolina State University
MA – East Carolina University

Stacy Miller
English Teacher
BS – Marist University

Kristen Proctor-Justice
Social Studies Educator
BS – North Carolina State University

Kimberli Quinn
Administrative Assistant
BA – Hastings College

Tabitha Roberson
Science Educator
BS – North Carolina State University
MEM – Duke University

Steven Shipley
Math Educator
BS – East Carolina University

Amanda Smith
English Educator
BS – University of North Carolina Wilmington

Ike Smith
English Teacher
BA, MAT – University of North Carolina - Chapel Hill

Susan Whitfield
CTE Educator
BS – East Carolina University

Early College-EAST

Erin Bingham
Physical Science/Biology Educator
BS – East Carolina University

Sherry Casey
CTE Educator
BA – Tarleton State University

Siobhan Gaestel
English Educator
BS – Towson University

Jessica Kelly
Math Educator
BA – North Carolina State University

Alison Lassiter
Math Educator
BS – East Carolina University

David Lee
History Educator
BS – Appalachian State University

Antwon Pittman
Administrative Assistant/NCVPS Coordinator
BS – Elizabeth City State University

Allan Quinn
Dean of Early College-EAST
BA – Hastings College
MA – East Carolina University

Nerissa Sparnell
Engineering Educator
BS – University of North Carolina-Charlotte

Karyn Suggs
College Readiness and Partnership Coordinator
BA – Sam Houston State University
MA – Northern Arizona State University

Donna York
Administrative Assistant

Academic Calendar, Maps and Success Factors

■ ACADEMIC CALENDAR - (Fall 2014)

College Assembly/Professional Development Day (College Closed).....	August 13
Final Registration for Fall	August 14
Faculty Workdays.....	August 14–15
Classes Begin (Regular and Term A).....	August 18
10% Point – 75% Refund (Term A)	August 21
10% Point-75% Refund (Regular Term)	August 27
Rosters Distributed (Regular and Term A).....	August 28
Last Day to Appeal Final Grade for Summer Term.....	August 29
Labor Day Holiday (College Closed).....	September 1
Faculty Enrollment Verifications due to Financial Aid Office (Regular and Term A)	September 2
Last Day to Register for Flex-Term Classes	September 15
Classes Begin (Flex-Term)	September 16
Financial Aid 60% Date (Term A)	September 22
10% Point -75% Refund (Flex-Term).....	September 23
Last Day to Withdraw from Class or Audit (Term A).....	September 24
Financial Aid Grant Disbursement (Regular and Term A)	September 26
Faculty Enrollment Verifications due to Financial Aid Office (Flex-Term).....	September 26
End of Term A	October 13
Last Day to Remove an Incomplete Grade for Spring/Summer Terms	October 13
Faculty Workday (No Classes) or Makeup Day for Official Cancellation	October 14
Grades Posted/Attendance Rosters Due by 5:00 p.m.(Term A).....	October 14
Last Day to Register for Term B Classes	October 14
Last Day to Apply for Fall Graduation	October 15
Classes Begin (Term B)	October 15
Financial Aid Grant Disbursement (Flex-Term)	October 17
10% Point – 75% Refund (Term B).....	October 20
Faculty Enrollment Verifications due to Financial Aid Office (Term B)	October 23
Financial Aid 60% Date (Regular Term).....	October 27
Last Day to Withdraw from Class or Audit (Regular Term).....	October 31
Spring Priority Registration.....	November 3–6
Financial Aid 60% Date (Flex-Term)	November 6
Open Registration Begins	November 7
Student Faculty Semester Break (No Classes) or Makeup Day for Official Cancellation	November 10
Veteran's Day Holiday (College Closed)	November 11
Last Day to Withdraw from Class or Audit (Flex-Term).....	November 13
Financial Aid Grant Disbursement (Term B).....	November 14
Financial Aid 60% Date (Term B).....	November 18
Last Day to Withdraw from Class or Audit (Term B)	November 24
Student/Faculty Semester Break (No Classes)	November 26–30
Thanksgiving Holiday (College Closed)	November 27–28
Final Exam	December 10–16
End of Fall Semester (Regular Term, Flex-Term and Term B)	December 16
Faculty Workday	December 17
Grades Posted/Attendance Rosters Due 5 p.m. (Regular Term, Flex-Term and Term B)	December 18
Administrative Holidays (College Closed)	December 24–31

Note: Dates are subject to change

Term A – (8 Weeks)	August 18–October 13
Regular Fall Semester – (16 Weeks)	August 18–December 16
Late Start – (12 Weeks)	September 16–December 16
Term B – (8 Weeks)	October 15–December 16

Academic Calendar, Maps and Success Factors

■ ACADEMIC CALENDAR - (Spring 2015)

New Years Day Holiday (College Closed).....	January 1
Administrative Holiday (College Closed).....	January 2
College Assembly/Professional Development Day (College Closed)	January 5
Final Registration for Spring Semester.....	January 6–7
Faculty Workdays (no classes).....	January 6–7
Classes Begin (Regular and Term A).....	January 8
10% Point – 75% Refund (Term A)	January 13
Martin Luther King Holiday (College Closed)	January 19
10% Point – 75% Refund (Regular Term).....	January 20
Last Day to Appeal Final Grade for Fall Term.....	January 22
Faculty Enrollment Verifications due to Financial Aid Office (Regular and Term A)	January 23
Last Day to Register for Flex-Term Classes	February 5
Classes Begin (Flex-Term).....	February 6
Financial Aid 60% Date (Term A).....	February 10
10% Point – 75% Refund (Flex-Term).....	February 13
Rosters Distributed (Flex-Term).....	February 14
Last Day to Withdraw from Class or Audit (Term A).....	February 16
Faculty Enrollment Verifications due to Financial Aid Office (Flex-Term)	February 18
Financial Aid Grant Disbursement (Regular and Term A)	February 28
Term A Ends	March 5
Last Day to Remove an Incomplete Grade for Fall Term.....	March 5
Faculty Workdays (no classes) or make-up for Official Cancellation	March 6
Grades Posted/Attendance Roster Due by 5 p.m. (Term A).....	March 6
Financial Aid Grant Disbursement (Flex-Term)	March 6
Last Day to Register for Term B Classes.....	March 6
Classes Begin (Term B).....	March 9
10% Point – 75% Refund (Term B)	March 12
Last Day to Apply for Spring Graduation	March 13
Faculty Enrollment Verifications due to Financial Aid Office (Term B)	March 17
Financial Aid 60%Date (Regular Term).....	March 18
Last Day to Withdraw from Class or Audit (Regular Term)	March 25
Faculty Workday (No Classes)	March 26
Financial Aid 60% Date (Flex-Term).....	March 30
Spring Holiday (College Closed)	April 6
Student/Faculty Semester Break (No Classes)	April 6–11
Summer Priority Registration	April 13–17
Last Day to Withdraw from Class or Audit (Flex-Term).....	April 13
Financial Aid Grant Disbursement (Term B).....	April 10
Open Registration Begins	April 20
Financial Aid 60% Date (Term B).....	April 20
Last Day to Withdraw from Class or Audit (Term B)	April 22
Final Exams.....	May 5–11
College Convocation.....	May 8
End of Spring Semester (Regular Term, Flex-Term and Term B).....	May 11
Grades Posted/Attendance Rosters Due 5 p.m. (Regular Term, Flex-Term and Term B)	May 13
Graduation/Faculty Workday.....	May 16

Note: Dates are subject to change

Term A - (8 Weeks)	January 8–March 5
Regular Spring Semester – (16 Weeks)	January 8–May 11
Late Start (12 Weeks)	February 6–May 11
Term B - (8 Weeks)	March 9–May 11

Academic Calendar, Maps and Success Factors

■ ACADEMIC CALENDAR - (Summer Term 2015)

Final Registration for Summer	May 18–20
Classes Begin	May 21
Memorial Day Holiday (College Closed)	May 25
10% Point - 75% Refund	May 28
Faculty Enrollment Verifications due to Financial Aid Office	June 3
Last Day to Appeal Final Grade for Spring Term	June 4
Last Day to Apply for Summer Graduation.....	June 15
Financial Aid Grant Distribution.....	June 25
Independence Day Holiday (College Closed).....	July 2
Financial Aid 60% Date.....	July 6
Last Day to Withdraw from Class or Audit	July 9
Fall Priority Registration	July 13–16
Open Registration Begins	July 20
Final Exams.....	July 28–Aug. 3
End of Term	August 3
Grades Posted/Attendance Rosters Due by 5:00 p.m.	August 4

Note: Dates are subject to change

10 Week Term May 21–August 13

Academic Calendar, Maps and Success Factors

■ Directions

Craven Community College-New Bern Campus

Best Routes to New Bern Campus 800 College Court, New Bern

Arriving from Washington, NC or Upstate North Carolina:

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

Arriving from Kinston, NC or Western North Carolina:

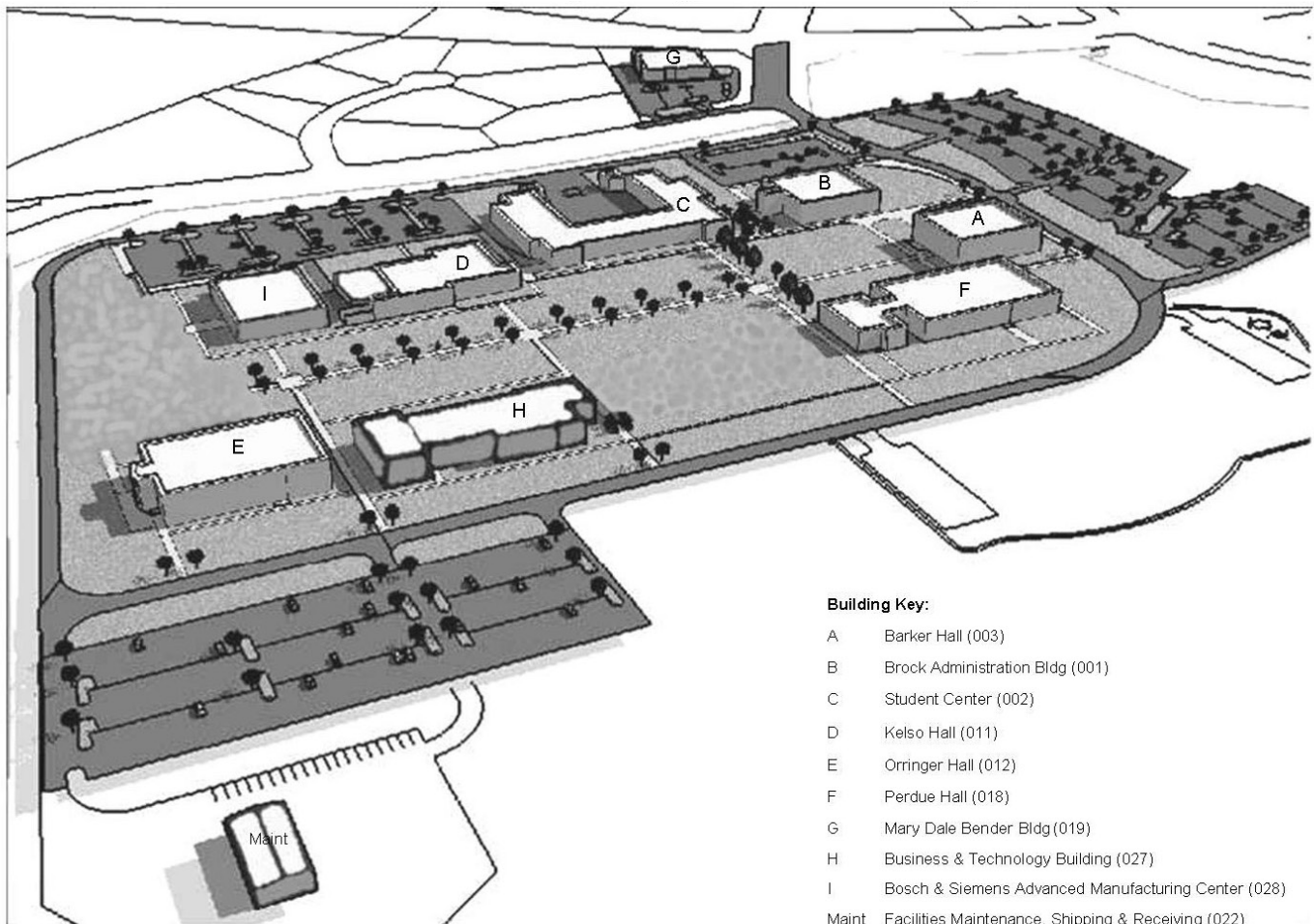
Take US 70 East to NC 43 intersection (Glenburnie Road), turn right at stop light, and then right again on College Court.

Arriving from Havelock, NC or Eastern North Carolina:

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

Arriving from Jacksonville, NC or Southern North Carolina:

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



NB Campus

Building Key:

A	Barker Hall (003)
B	Brock Administration Bldg (001)
C	Student Center (002)
D	Kelso Hall (011)
E	Orringer Hall (012)
F	Perdue Hall (018)
G	Mary Dale Bender Bldg (019)
H	Business & Technology Building (027)
I	Bosch & Siemens Advanced Manufacturing Center (028)
Maint	Facilities Maintenance, Shipping & Receiving (022)

■ Directions

Craven Community College-Havelock Campus

Best Routes to Havelock Campus 305 Cunningham Blvd, Havelock

Arriving from Washington, NC or Upstate North Carolina:

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

Arriving from Kinston, NC or Western North Carolina:

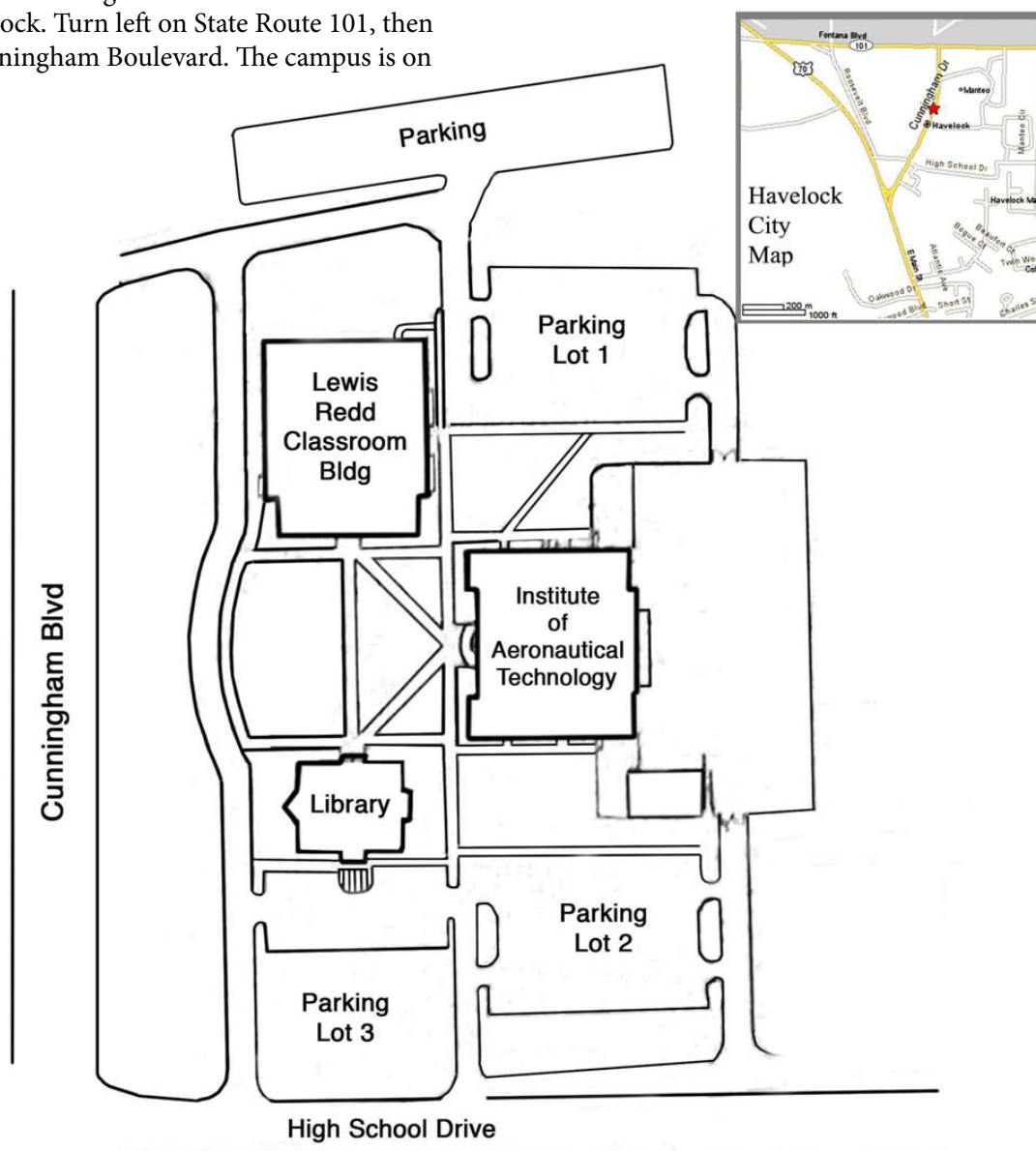
Take US 70 East through New Bern and follow 70 East to Havelock. Turn left on State Route 101, then right on Cunningham Boulevard. The campus is on the left.

Arriving from Eastern North Carolina:

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

Arriving from Jacksonville, NC or Southern North Carolina:

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



Academic Calendar, 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

2008 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-yrs	Completers of Programs 2<4 yr	Total Completers Within 150%	Graduation Rate
263	10	8	18	7%

Cohort Students Who Transferred into Other Institutions		
Student Cohort	Total Transfer-Out Students	Transfer-Out Rate
263	94	36%

Academic Calendar, Maps and Success Factors

■ Critical Success Factors

North Carolina Community Colleges measure their performance in eight 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, 2012-2013 NORTH CAROLINA COMMUNITY COLLEGE SYSTEM AND CRAVEN COMMUNITY COLLEGE

	Measure	System Goal	System Baseline	Average College %	Craven CC
1.	Basic Skills Student Progress	51.2%	20.6%	41.3%	33.7%
2.	GED Diploma Passing Rate	82%	49.3%	73.6%	72.7%
3.	Developmental Student Success Rate in College-level English Courses	74.9%	45.2%	64.4%	60.1%
4.	Developmental Student Success Rate in College-level Math Courses	75.4%	47.5%	64.4%	63.2%
5.	First Year Progression	74.6%	53.2%	68.3%	69.4%
6.	Curriculum Student Completion	45.6%	28.6%	43.6%	44.2%
7.	Licensure and Certification Passing Rate	91.7%	71%	83.2%	79.7%
8.	College Transfer Performance	93.8%	71.2%	87.8%	89.4%



■ Notice to Students

THIS CATALOG IS NOT A CONTRACT AND IS NOT AN OFFER TO ENTER INTO A CONTRACT. Craven Community College publishes this Catalog for the convenience of students and other interested persons by providing a central location for information about the College and its programs. While every effort is made to ensure the accuracy of the information provided in this Catalog, it must be understood that all courses, course descriptions, designations of instructors, curricular and degree requirements and other academic information set forth in the Catalog are subject to change or elimination at any time and without prior notice. Fees and all other charges are subject to change at any time without prior notice. Students should consult the appropriate academic or administrative department for currently accurate information on any matters described in this Catalog.