



2008

2010

Catalog and Student Handbook



Rowan-Cabarrus Community College
RCCC

www.rowancabarrus.edu

Rowan-Cabarrus Community College

2008-10

General Catalog & Student Handbook

Rowan-Cabarrus Community College
Post Office Box 1595
Salisbury, North Carolina 28145-1595

www.rowancabarrus.edu

North Campus
1333 Jake Alexander Blvd.
Salisbury, NC 28146
704-637-0760

South Campus
1531 Trinity Church Rd.
Concord, NC 28027
704-788-3197

Cabarrus Business & Technology Center
660 Concord Parkway North
Concord, NC 28027
704-216-3598

All information published in this catalog is subject to change during the academic year. The college is not responsible for any errors found in this catalog; however, the college will make every effort to correct errors that are identified and to make revisions as necessary. Refer to the college website (www.rowancabarrus.edu/catalog) for the most current information.

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

This catalog should not be construed as constituting a contract between the college and any person.

RCCC is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

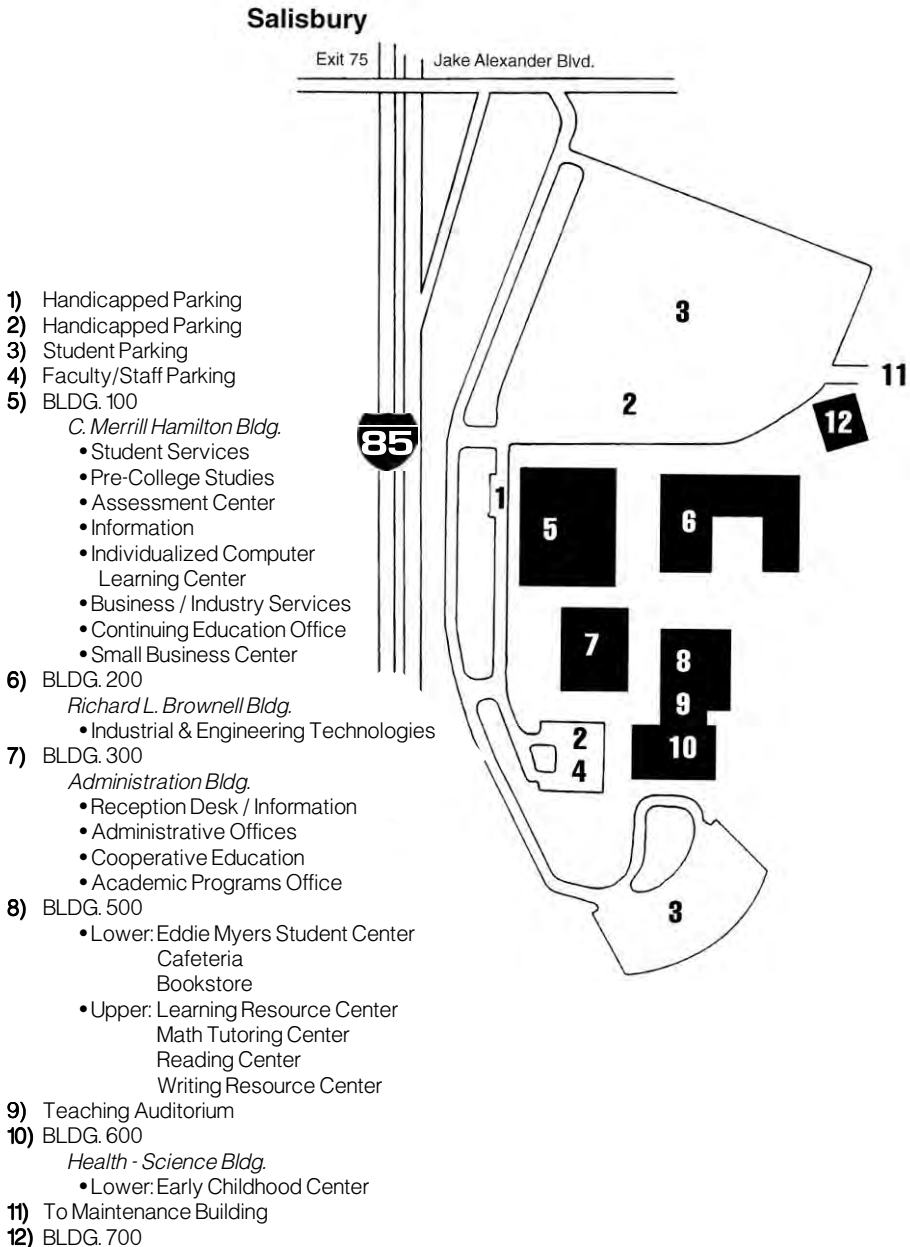
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Rowan-Cabarrus Community College

North Campus

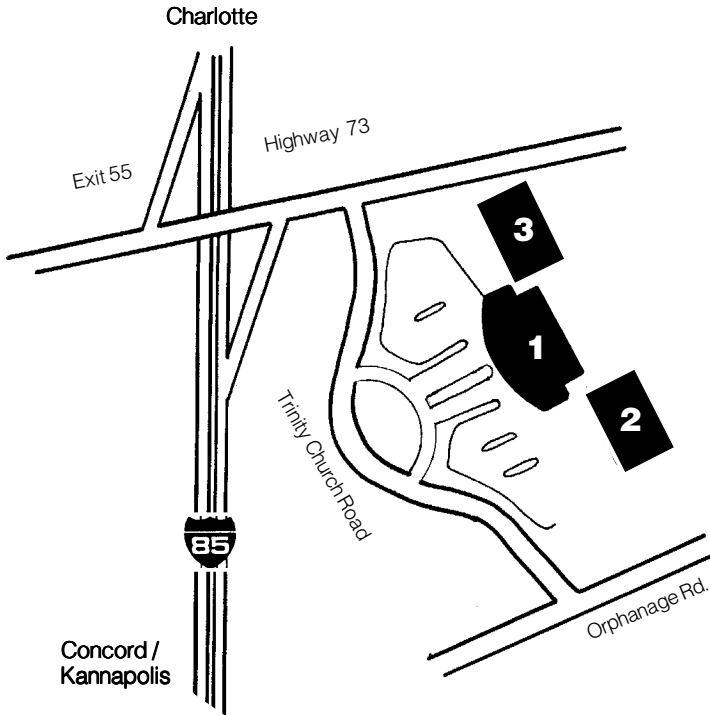
Rowan County



Rowan-Cabarrus Community College

South Campus

Cabarrus County



1) BLDG. 1000

- Student Services
- Administration Offices
- Learning Resource Center
- Academic Programs Office
- Continuing Education Office
- Writing Center
- Math Tutoring Center
- Biology, Anatomy & Physiology Labs
- Reading Center

2) BLDG. 2000

- Motorsports/Flex Lab
- Individualized Computer Learning Center
- Community Service Room
- Allied Health Lab
- Electronics Lab
- English Lab
- Reading Lab
- Cooperative Education Office

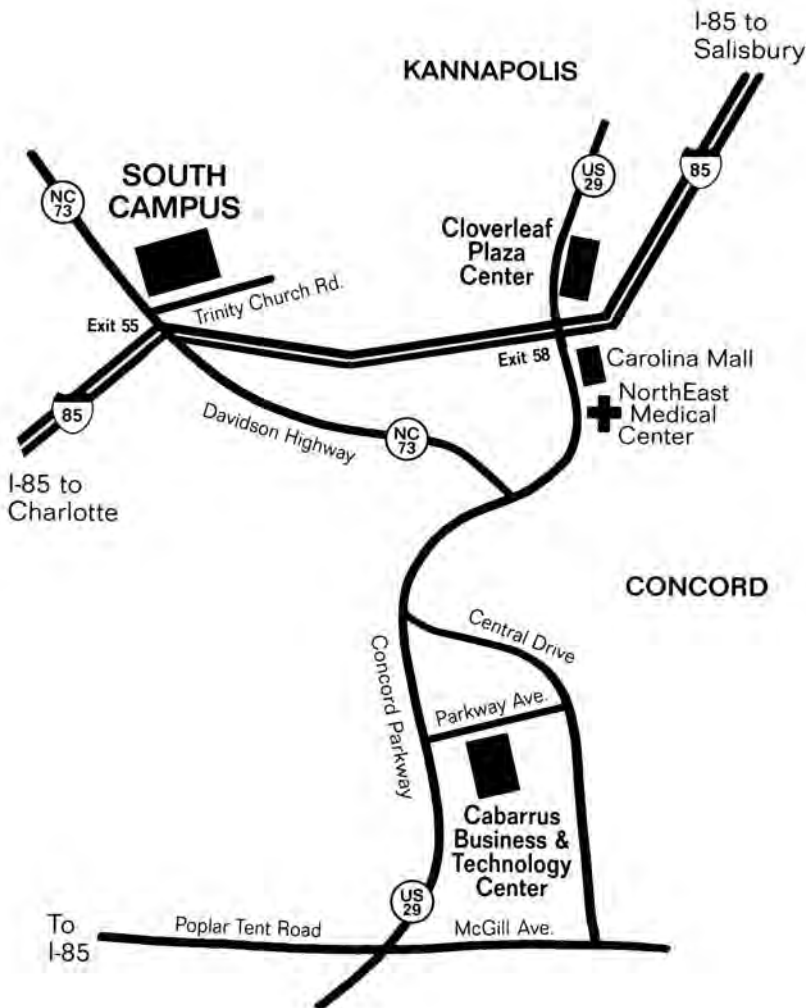
3) BLDG. 3000

- Student Union/Student Government Office
- Cafeteria
- Bookstore
- Pre-College Studies Skills
- Office Systems Tech. Computer Lab
- Astronomy, Physics, and Chemistry Labs

Rowan-Cabarrus Community College

Cabarrus Business & Technology Center / Cloverleaf Plaza Center

Cabarrus County



Academic Calendar

2008-2009

Fall Semester 2008

August 11	M	All Faculty Return; Faculty Work Day
August 12	T	Faculty Work Day/Registration - North Campus
August 13	W	Faculty Work Day/Registration - South Campus
August 14	TH	Faculty Work Day/Professional Development Day
August 15	F	Faculty Work Day
August 18	M	Classes Begin for 16-Week Classes and 1 st 8-Week Classes
August 18,19	M,T	Late Registration and Schedule Changes
August 23	S	First Class Meeting for North Campus Telecourses (See Telecourse Schedule)
August 27	W	Curriculum Census (10%) Date - Last day to drop with 75% refund for 16-week classes
August 30	S	First Class Meeting for South Campus Telecourses (See Telecourse Schedule)
September 1	M	Labor Day Holiday – College Closed
September 2	T	Classes Resume
October 2	TH	Last Day to Withdraw from 1 st 8-Week Classes
October 10	F	Student/Faculty Break Day
October 13,14	M,T	NCCCS Conference (Raleigh)/Student Break Days
October 15	W	Classes Resume
October 15	W	Registration for 2 nd 8-Week Classes
October 16	TH	Classes End for 1 st 8-Week Classes
October 17	F	Classes Begin for 2 nd 8-Week Classes
TBA	TBA	Early Advising/Registration Begins (schedules available)
TBA	TBA	Early Advising/Registration Ends
November 20	TH	Last Day to Withdraw from 16-Week Classes, including Telecourses
November 26	W	Student/Faculty Break Day
November 27,28	TH, F	Thanksgiving Holidays – College Closed
December 1	M	Classes Resume
December 5	F	Last Day to Withdraw from 2 nd 8-Week Classes
December 10-16	W-T	Exam Week (5 days)
December 16	T	Classes End for 16-Week Classes and 2 nd 8-Week Classes
December 17	W	Faculty Work Day; Records Due at 11:00 am; Holiday Social
December 18,19	TH, F	Faculty Break Days
December 22-31	M-W	College Break Days (8 days) – College Closed

Spring Semester 2009

January 1,2	TH,F	New Year's Holidays – College Closed
January 5	M	Faculty Work Day
January 6	T	Faculty Work Day/Registration – North Campus
January 7	W	Faculty Work Day/Registration – South Campus
January 8	TH	Faculty Work Day/Professional Development Day
January 9	F	Faculty Work Day
January 12	M	Classes Begin for 16-Week Classes and 1 st 8-Week Classes
January 12,13	M,T	Late Registration and Schedule Changes
January 19	M	Martin Luther King, Jr. Holiday – College Closed
January 20	T	Classes Resume
January 22	TH	Curriculum Census (10%) Date - Last day to drop with 75% refund for 16-week classes
January 24	S	First Class Meeting for North Campus Telecourses (See Telecourse Schedule)
January 31	S	First Class Meeting for South Campus Telecourses (See Telecourse Schedule)
February 25	W	Last Day to Withdraw from 1 st 8-Week Classes
March 6	F	Classes End for 1 st 8-Week Classes
March 9-13	M-F	Student/Faculty Spring Break Days (5 days)
March 16	M	Classes Resume
March 16	M	Registration for 2 nd 8-Week Classes
March 18	W	Classes Begin for 2 nd 8-Week Classes
March 23	M	Job Fair (Classes in Session)
TBA	TBA	Early Advising/Registration Begins for Summer Term (schedules available)
TBA	TBA	Early Advising/Registration Ends
April 10	F	Spring Holiday – College Closed
April 13	M	Classes Resume
April 21	T	Last Day to Withdraw from 16-Week Classes, including Telecourses
May 1	F	Last Day to Withdraw from 2 nd 8-Week Classes
May 6-12	W-T	Exam Week (5 days)
May 12	T	Classes End for 16-Week Classes and 2 nd 8-Week Classes
May 13	W	Faculty Work Day (Including 9-Month Faculty; 9-Month Contracts End); Records Due at 12:00 Noon

March 9-13 are inclement weather make-up days, if necessary

REGISTRATION TIMES – All Semesters

Registration times are subject to change. Please consult Course Schedule, the college's website (www.rowancabarrus.edu), or the Student Services Office for registration times.

Summer Term 2009 (One 10-Week & Two Short Sessions)

May 14	TH	Registration for Summer Term 2009 - North Campus & South Campus
May 15	F	Faculty Work Day
May 18,19	M,T	Student/Faculty Break Days
May 20	W	Classes Begin for 10-Week Classes & 1 st 5-Week Classes
May 20	W	Late Registration and Schedule Changes
May 25	M	Memorial Day Holiday (College Closed)
May 26	T	Classes Resume
May 27	W	Curriculum Census (10%) Date - Last day to drop with 75% refund for 10-week classes
May 30	S	First Class Meeting for Telecourses (See Telecourse Schedule)
May 30	S	Curriculum Graduation and GED Graduation
June 18	TH	Last Day to Withdraw from 1 st 5-Week Classes
June 23	T	Registration for 2 nd 5-Week Classes
June 24	W	Classes End for 1 st 5-Week Classes
June 25	TH	Classes Begin for 2 nd 5-Week Classes
July 3	F	4 th of July Holiday (College Closed)
July 6	M	Classes Resume
July 17	F	Last Day to Withdraw from 10-Week Classes including Telecourses
July 24	F	Last Day to Withdraw from 2 nd 5-Week Classes
TBA	TBA	Registration for Health Programs for Fall Semester 2009
July 30	TH	Classes End for 10-Week Classes & 2 nd 5-Week Classes
July 31	F	Faculty Work Day; Records due by 12:00 Noon
August 3-7	M-F	Student/Faculty Break Days (5 days)

The 2009-2010 Academic Calendar will not be finalized until February 2009. It will be posted on the college website (www.rowancabarrus.edu) at that time.

REGISTRATION TIMES – All Semesters

Registration times are subject to change. Please consult Course Schedule, the college's website (www.rowancabarrus.edu), or the Student Services Office for registration times.



General Information

About Rowan-Cabarrus Community College

By deciding to go to college, you have chosen to expand your career choices, to enlarge your understanding about the world you live and work in, and to gain deeper insights into your own worth and promise. We think you have made a wise choice, and Rowan-Cabarrus Community College is the right place for you to begin.

Our 102-acre North Campus is conveniently located in the North Carolina Piedmont, just off Interstate Highway 85 in Rowan County, within an hour's drive of several major cities. RCCC's 24-acre South Campus is conveniently located in Cabarrus County at the junction of I-85, NC 73 and Trinity Church Road.

Modern classrooms, fully equipped laboratories, shops and learning resources are available at all campus locations. A highly qualified and dedicated faculty and staff stand ready to help you succeed as they encourage you to learn in stimulating and innovative ways.

Rowan-Cabarrus Community College offers a wide variety of associate degree, diploma and certificate programs, with both day and evening classes. As you leaf through the pages of this catalog, envision yourself as part of the college. Today you will discover the way to a more fulfilling and rewarding life!

History of the College

The need for a technical education center was recognized in 1960, when Salisbury-Rowan community leaders, working through the chamber of commerce, conducted a survey of manpower requirements in the area. Results of the survey provided the basis for their request that the State Board of Education establish an industrial education center in Rowan County.

The people of Rowan County gave strong support to the idea by approving a \$500,000 bond issue to purchase land and to finance construction of the first building.

When the center first opened its doors in 1963, it offered seven pre-employment education programs and a variety of short courses for adults.

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

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

In 1988, the trustees of the college voted to change the name of the institution to Rowan-Cabarrus Community College to more accurately reflect the comprehensive nature of its programs and the service area.

The college has experienced considerable growth since 1963, and now enrolls an average of 20,000 citizens annually. Today, Rowan-Cabarrus Community College prepares individuals for careers in approximately 40 programs of study in business, health and public services, and industrial and engineering technologies. An Associate Degree Arts and Sciences program is also available for those students who intend to transfer to a four-year college or university. During the year, at least 10 percent of the citizens of Rowan and Cabarrus counties enroll in some form of instructional program at Rowan-Cabarrus Community College.

The physical plant has expanded almost as rapidly as the curricula. From a single building designed especially for vocational-technical training, the college's North Campus in Rowan County now consists of six educational buildings containing 230,000 square feet. These facilities are complemented by three buildings containing 120,000 square feet located on the college's South Campus located in Cabarrus County. The college also has two centers located in Cabarrus County. The Cloverleaf Center located near the intersection of I-85 and Concord Parkway in Kannapolis consists of 19,525 square feet. The Cabarrus

Business and Technology Center located at Concord Parkway and Parkway Avenue in Concord provides 39,000 square feet of instructional space. The R³ Center located at 164 Dale Earnhardt Boulevard in downtown Kannapolis offers 10,000 square feet of multi-functional space for career counseling, instruction, and administrative services.

Credit Programs

The instruction you will get at Rowan-Cabarrus Community College is fully accredited. Each program meets specific requirements set by employers in Rowan, Cabarrus and surrounding counties. Representatives of local business and industry make up our advisory committees. Because of this strong tie to the real world of work, each of these programs offers the student the opportunity for a well-rounded, interesting and practical education.

When you enroll in a particular program, you will follow a schedule of "credit courses" which, when successfully completed, will enable you to receive a degree, diploma or certificate. If you have an immediate need or interest in a particular course or group of courses, you may enroll without committing yourself to a particular program. Those credits that you earn can then apply toward a degree, diploma or certificate when you are ready to complete a program.

Services for the Community

At Rowan-Cabarrus Community College, Continuing Education programs support the philosophy that learning is a lifelong activity. This division offers classes and short courses for professional development and community service courses of general interest at convenient times and locations.

Business and Industry Services' staff provide customized support for the community through the Small Business Center, New and Expanding Industry Training and Focused Industrial Training. The Small Business Center is designed to assist small business start-ups and to help existing businesses grow. The college's New and Expanding Industry Training office has earned national recognition for cooperative training efforts with area industries. Focused Industrial Training designs innovative educational programs for the service region's manufacturing sector.

An important function of the college is to provide educational programs on the pre-college level. Literacy Services offer adults the opportunity for meaningful social and occupational growth through Adult Basic Education (ABE), Human Resources Development (HRD), and the High School Equivalency Program (GED).

More can be learned about these special services by referring to the specific sections in this publication.

PURPOSE OF THE COLLEGE

Mission

Rowan-Cabarrus Community College is an open-door, comprehensive learning-centered institution of higher education serving the citizens of Rowan and Cabarrus counties. The college, a member of the North Carolina Community College System, offers affordable occupational and education programs leading to the Associate in Applied Science Degree and an Arts and Sciences program leading to the Associate in Arts Degree and the Associate in Science Degree. Diplomas and certificates are awarded for other occupational, adult and continuing education programs. The primary focus of the college's offerings is on workforce development by meeting the educational needs of the individual and meeting the changing training requirements of business and industrial firms, as well as other employers in the service area.

Reflecting its commitment to student learning outcomes, the college strives to inspire adults to increase their knowledge, develop occupational and technical proficiencies, respond to lifelong learning opportunities, and increase their awareness as responsible citizens in a democratic society.

Strategic Plan

Strategic Goal 1: *Student Success*

At Rowan-Cabarrus Community College, we empower all learners to become active participants in their education. Our primary emphasis as a learning-centered college is providing meaningful academic experiences within a collaborative learning environment where students are encouraged to achieve their maximum potential.

Strategic Goal 2: *Workforce and Economic Development*

At Rowan-Cabarrus Community College, we serve our students and support the regional economy by placing emphasis on timely and high quality workforce development initiatives.

Strategic Goal 3: *North Carolina Research Campus*

At Rowan-Cabarrus Community College, we support the North Carolina Research Campus by assuming a leadership role in its establishment and development.

Strategic Goal 4: *Communication*

At Rowan-Cabarrus Community College, we place a high priority on broad-based, interactive internal and external communication in the management of a multi-campus environment.

Strategic Goal 5: *Outcomes-Based Culture*

At Rowan-Cabarrus Community College, we place an emphasis on evidence-based planning and outcomes assessment as a means of fulfilling the mission of the college.

Strategic Goal 6: *Institutional Success*

At Rowan-Cabarrus Community College, we align funding, organizational structure, operational procedures, and processes to ensure the quality of the college's growth and success as a multi-campus college.

Goals

1. To increase the academic attainment of adult citizens through comprehensive programs of lifelong learning that include the high school level, the one-year diploma level, and the two-year degree level, as well as articulation that facilitates transfer of occupational courses and two-year degrees to four-year institutions.
2. To increase the occupational and technical skill levels of adult citizens.
3. To increase the economic development of the area.
4. To increase the quality of life of adult citizens through personal growth and development.
5. To increase awareness of the democratic process.

RCCC meets its institutional goals through these educational offerings:

- Specialized occupational education degree programs leading to the Associate in Applied Science Degree and occupational programs leading to certificates and diplomas.
- Arts and Sciences course offerings leading to the Associate in Arts Degree and Associate in Science Degree.
- Customized training programs which increase the productivity of employees of existing firms and organizations in the service area and programs which prepare potential employees for new businesses and industries.
- Adult education and continuing education programs which include literacy skills, English as a Second Language (ESL), the North Carolina High School Equivalency program (GED), and occupational skills courses.
- Avocational courses and cultural events to enhance the personal growth and development of the citizens of the area.
- Programs of instruction and student government activities to increase awareness of the democratic process.

Values

Excellence in Education

The establishment of programs related to specific occupations and programs designed for the acquisition of those general skills and knowledge which make it possible for an individual to live effectively in society.

Primary Provider of Post-Secondary Workforce Training

The design and offering of programs enabling the college to fulfill its role as the primary provider of post-secondary workforce training in the region.

Enhancement of Workforce Development Through Partnerships

The fostering of programs and partnerships which enhance workforce and economic development. These partnerships and cooperative programs include those established by the college with state, county and municipal governments; business, industry and other employers; area public schools, colleges and universities; economic development organizations and chambers of commerce; the Employment Security Commission, Job Link Centers and workforce development boards; and RCCC program advisory committees.

Value-Added Education

The provision of services and programs which add value for citizens in terms of their current and future employment and which enhance productivity of the workforce for employers.

Accessibility

Through a policy of open admissions, a dedication to keeping costs at a level that will not prevent a student's attendance because of financial need and the determination to attract those students who previously have been denied, have been undervalued or who have not been successful in formal education.

Lifelong Learning

A commitment to providing a variety of courses to serve area citizens who wish to pursue a wide range of interests and a commitment to instilling in students of all ages a desire to be learners throughout their lives.

Concern for Students

The establishment of appropriate student services for all students, including personal counseling, academic advising, job placement, financial aid advice, referral services and student activities.

Accountability

The creation of processes which enhance the efficiency of specific college operations and overall institutional effectiveness.

Effective Management

The involvement of those with appropriate expertise in making decisions, the achievement of general consensus about fundamental college goals, the development of strategic planning processes and the systematic evaluation of all college programs.

Intellectual Orientation

The cultivation of an attitude about academic work, an attitude which encourages self-directed learning and which fosters both the ability to synthesize knowledge from many sources and the ability to appreciate new ideas and ways of thinking.

Personal Development

The promotion of individual student goals and the development of ways of achieving them, in combination with the enhancement of feelings of self-worth, self-confidence and self-direction.

Public Awareness

The creation of communications and partnerships with community organizations, media outlets and publications which provide timely and accurate information about the college, its mission, its programs and its effectiveness to the citizens and employers of the region.

Scholarship

RCCC perceives scholarship as intellectual work incorporating the discovery of knowledge, the transfer of knowledge, the application of new knowledge and the interdisciplinary integration of knowledge.

The discovery of knowledge includes maintaining awareness of current trends and practices in one's field as well as the creation of new knowledge through research using both quantitative and qualitative methods.

Scholarship in the transfer of knowledge is evidenced through an awareness of different learning styles and an ability to individualize learning in the classroom and lab environment, and an understanding of the cooperative and collaborative nature of learning. The scholarly instructor applies this knowledge through the use of innovative teaching techniques and course and program development, with consistent attention to learning objectives and outcomes. The achievement of learning objectives and outcomes is assessed through design of an evaluation program.

Scholarship through the application of new knowledge is evidenced in the lab and clinical components of instruction. Standards, protocols, procedures and practices should be continually reviewed and revised when necessary.

Finally, true scholarship includes an awareness and recognition of the interdependency and interconnection of all fields and disciplines. Knowledge, techniques and practices in one discipline may lead to innovation and discovery in another.

Globalization & Understanding

Global awareness and international experiences are an important factor in the educational framework. Students who enter the job market with global knowledge, international experience, and cross-cultural skills are the key to continued economic competitiveness in the global marketplace. Rowan-Cabarrus Community College encourages all students, faculty and staff to participate in global education initiatives.

Accreditation

Rowan-Cabarrus Community College is accredited to award associate degrees by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS). The address for the SACS Commission on Colleges is: 1866 Southern Lane, Decatur, Georgia 30033. The phone number is: (404) 679-4500, website: www.sacscoc.org

The Associate Degree Nursing program is accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, New York, NY 10006, (800) 669-1656. The Associate Degree Nursing program and the Practical Nursing program are approved by the North Carolina Board of Nursing, P.O. Box 2129, Raleigh, NC 27602-2129, (919) 782-3211.

The Dental Assisting program is accredited by the Commission on Dental Accreditation, 211 East Chicago Avenue, Chicago, IL 60611, (312) 440-2500.

The Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606-3182, Ph.: (312) 704-5300, Fax: (312) 704-5304, Email: mail@jcert.org

Institutional Effectiveness

An institutional effectiveness program is a continuous and integrated system for planning, implementing, assessing, analyzing, and improving college programs and services in fulfillment of the college's stated mission. Rowan-Cabarrus Community College uses the institutional effectiveness process to determine whether programs and services are doing what they were intended to do, how well they are accomplishing their stated mission and where there is room for improvement based on the analysis of measurable outcomes.

In 1985, the Commission on Colleges of the Southern Association of Colleges and Schools (COC/SACS) began using the term "institutional effectiveness" to mean "outcomes assessment." Today, institutional effectiveness is at the heart of SACS accreditation process with one core requirement and multiple comprehensive standards focusing on assessment, evaluation and use of results for institutional improvement.

Institutional effectiveness is an integral part of Rowan-Cabarrus Community College's quest for continuous improvement in programs, services, and administrative functions. The college is committed to enhancing student learning through outcomes-based assessment of progress and continual improvement of programs and services.

Governed by the Current Board of Trustees

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National Institution for Leadership and Institutional Effectiveness
National Safety Council
North Carolina Career Information Consortium
Rowan County Chamber of Commerce
Southern Association of Colleges and Schools
Southern Association of Community Colleges

North Carolina Performance Measures and Standards

North Carolina General Statutes require that all community colleges publish in their catalogs (and online) their record on 12 performance measures. The North Carolina Community College System office publishes annually a Critical Success Factors Report providing system-wide and individual college results on the performance measures and other statistical measures. The 2007 Critical Success Factors Report provided results on the 12 performance measures.

RCCC's performance on the measures with results reported was as follows:

1. **Progress of Basic Skills Students**– Measures the progress of basic skills students. A composite measure that includes the percent of students progressing within a literacy level, the percent of students completing a level entered or a predetermined goal, and the percent of students completing the level entered and advancing to a higher level. NCCCS standard: 75%. The NCCCS average was 82%. RCCC's performance was 82%.
2. **Passing Rates on Licensure and Certification Examinations** – Measures the percentage of first-time test takers from community colleges passing an examination required for North Carolina licensure or certification prior to practicing the profession. NCCCS standard: 80%. The NCCCS average was 85%. RCCC's performance was 81%.
3. **Goal Completion of Completers**– Measures the proportion of program graduates (certificate, diploma and degree programs) who report that their primary goal in attending the institution has been met. NCCCS standard: 95%. The NCCCS average was 99%. RCCC's performance was 99%.
4. **Employment Status of Graduates** – Measures the proportion of identified community college completers (graduates) who are employed within one year of last attendance. NCCCS standard: 95%. The NCCCS average was 99.51%. RCCC's performance was 99.69%.

5. **Performance of College Transfer Students** – Compares the performance of community college associate degree students who transfer to public UNC institutions with “native” students (students who began their collegiate studies at the UNC institution). NCCCS standard: 87.9% will have a grade point average of 2.0 or above after two semesters at a UNC institution. The NCCCS average was 84.2%. RCCC’s performance was 83.1%.
6. **Passing Rates of Students in Developmental Courses**– The percent of students who complete developmental English, mathematics or reading courses with a grade of “C” or better. NCCCS standard: 70%. The NCCCS average was 80%. RCCC’s performance was 82%.
7. **Satisfaction of Program Completers and Non-Completers** – Determines the proportion of graduates and early-leavers who indicate that the quality of the college programs and services met or exceeded their expectations. Completers - NCCCS standard: 90% of the combined respondents will report being satisfied. The NCCCS average was 98%. RCCC’s performance was 98%. Non-Completers - NCCCS standard: 90% of the combined respondents will report being satisfied. The NCCCS average was 95%. RCCC’s performance was 98%.
8. **Curriculum Student Retention and Graduates**– Composite includes 1) number of individuals completing a curriculum program with a certificate, diploma or degree; and 2) number of individuals who have not completed a program but who are continuing enrollment in either curriculum or occupational extension programs. NCCCS standard: 60% of students will have completed their program or still be enrolled. The NCCCS average was 65%. RCCC’s performance was 64%.
9. **Client Satisfaction with Customized Training** – Determines the satisfaction of organizations that received services from a community college. NCCCS standard: 90%. The NCCCS average was 99%. RCCC’s performance was 99%.
10. **Program Unduplicated Headcount Enrollment** – A minimum three-year average unduplicated headcount enrollment in a curriculum program. NCCCS standard: a three-year average annual headcount minimum of ten students per program. NCCCS had (system-wide) 52 programs with fewer than ten students enrolled. RCCC had 2 programs with fewer than ten students.
11. **Success Rate of Developmental Students in Subsequent College-Level Courses** – The performance of developmental students in subsequent college-level courses will be compared with the performance of non-developmental students in those courses. NCCCS standard: There will be no statistically significant difference in the performance of developmental students as compared to non-developmental students. As long as the performance of the developmental groups exceeds 85%, the institution meets the standard. Developmental - NCCCS average was N/A. RCCC’s performance was 93%. Non-Developmental - NCCCS average was 86%. RCCC’s performance was N/A.
12. **Employer Satisfaction with Graduates** – This measure is intended primarily to determine the satisfaction of organizations whose employees have been trained through a community college. NCCCS standard: 85%. The NCCCS average was 97%. RCCC’s performance was 100%.

N/A - Not Available

Customer Service

School Supplies

RCCC

FUTARI
HEROIN
LEGENDS OF MIND



Admissions

HOW TO ENROLL To Assure Your Success. . .

Rowan-Cabarrus Community College and other institutions in the North Carolina Community College System operate under an "Open Door" policy. In accordance with the North Carolina Administrative Code, Title 23, Chapter 2(c), Section .0300, the college shall maintain an open-door admissions policy to all applicants who are high school graduates or who are at least 18 years of age. Student admission processing and placement determination shall be performed by the college's Admissions Office.

For example, most of our degree, diploma, or certificate programs are taught at a level beyond high school. Therefore, a high school diploma or recognized equivalent is usually minimal preparation. If you have not completed high school, the college provides G.E.D. programs through the Pre-College Division.

In order to assure that your educational experience will be successful, counselors will assist qualitatively and quantitatively in determining your present academic preparedness for the program you have chosen. The college uses placement tests, academic records, occupational experience and/or other indicators to determine the student's preparedness and potential for success.

It is in the student's best interest to have successfully completed Algebra I and Algebra II in high school.

All health programs contain additional admission requirements that must be met before enrollment. Refer to the admission requirements for these programs of study in the Programs of Study section of this catalog.

If you have not successfully completed all the high school courses you need to succeed in the program of your choice, RCCC will make the courses available to you.

In certain occupational programs, students are enrolled on a space-available basis because laboratory space is limited. Applicants to these programs are encouraged to contact the Student Services Office as soon as possible. High school seniors should apply early in their senior year. New students are usually admitted each year at the beginning of the Fall Semester; however, RCCC accepts qualified students during each semester's registration if there is room in the class.

Pre-Curriculum Courses (Developmental)

To further assure your success, Rowan-Cabarrus Community College provides a number of services. When you contact the college, a counselor will arrange for you to participate in a success seminar to determine your academic strengths. If you need to brush up on your skills, you will want to take some developmental courses. These courses (designed to improve reading, writing, spelling, mathematics and computer skills) are taught in small classes or with programmed, self-paced materials. Usually, students who take developmental courses will be advised that they can take one or two of their regular program courses at the same time.

Although students register for developmental courses and pay regular tuition and fees as with any class, these are considered non-credit courses and are not included in the Grade-Point Average. These may be prerequisite courses for some college courses.

Enrolling is Easy at RCCC...

- Once you have made the decision to take classes at Rowan-Cabarrus Community College, call or visit the Student Services Office on any campus or go online to www.rowancabarrus.edu to apply online or to obtain an Application for Admission form. Return the completed form to the Student Services Office as soon as possible. Please realize it may take up to 48 hours to process your application, depending on the date you apply.
- Contact the Guidance/Registrar's office of your high school and any colleges you have attended and request they send an official transcript (one mailed directly from school to school or a transcript hand-delivered in an appropriately signed and sealed envelope) of your work to the Student Services Office, Rowan-Cabarrus Community College, P.O. Box 1595, Salisbury, North Carolina, 28145-1595. Home-school graduates should send a final transcript, verifying your graduation, as well as a copy of the letter from the North Carolina Department of Non-Public Instruction acknowledging your home school. Correspondence/online school diplomas will be accepted if they are regionally accredited or accredited by the Distance Education and Training Council (DETC). Any other correspondence/online school diplomas will be reviewed on a case-by-case basis.
- As soon as possible, arrange an appointment with Student Services to take the COMPASS placement test and the computer skills placement test. Students entering a certificate program or taking a "specific course of interest" may not be required to take the placement test, but will be expected to meet all course prerequisites.

You may be exempt from testing if you:

- (1) have transferable college credits in Computers, English and Math completed within the last ten (10) years; or
 - (2) made a score of 500 or higher on the math, reading, and writing portions of the SAT within the last five (5) years or made a score of 21 or higher on the math and reading portions of the ACT within the last five (5) years; or
 - (3) have a baccalaureate degree or higher within the last 10 years.
- This exemption may not apply to applicants for the Associate Degree Nursing, Practical Nursing, Dental Assisting, and Radiography programs (Health programs). If applicants for a Health program have transferable credit (grade of "C" or better) in English and mathematics and these credit hours were completed within five (5) years of the date they apply for their program of choice, testing may not be required. For nursing and radiography programs, score, remediation, or demonstrated proficiency must be acquired within five (5) years of January 1 of the admission year.
 - Students seeking special accommodations due to a disability should contact Disability Services prior to scheduling a placement test date. Please refer to the "Information About Special Students" section of this catalog.
- Complete RCCC New Student Orientation.
 - All students are expected to follow the policies and procedures of the college. By signing the college application, the student accepts the responsibility to be aware of and follow codes of conduct, behavior standards and all program specific rules, policies, and procedures.

Student Agreement Regarding Internet Usage

Upon signing the college application, the student accepts and agrees to abide by the policy and responsibilities specified in Procedure No. 7.18 – Student Internet Acceptable Use Policy. Further, with this educational opportunity also comes responsibility, and the student concurs that:

- The Internet connection at RCCC is provided to support and promote college-related research and educational activities and, as such, is consistent with the mission of the college.
- The use of the RCCC's Internet connection is a privilege, not a right, and inappropriate use will result in the cancellation of this privilege. I understand that suspected misuses will be confidentially reported to the appropriate Vice President. I understand that violations of Procedure Number 7.18 – Student Internet Acceptable Use Procedure, will be subject to Procedure 7.16 – Student Behavior Standards/Sanctions.
- I understand that violations of responsibilities may result in civil and criminal penalties to the maximum extent of the law. I will be liable for financially compensating RCCC for violations of responsibilities.
- It is my responsibility to ensure that fraudulent, harassing, threatening, racist, sexist, offensive, or obscene communications and/or materials are not sent, printed, requested, or stored. I understand that transmission of any materials in violation of federal or state laws or regulations is prohibited. I understand that purchasing via the Internet is prohibited.
- It is my responsibility to not reproduce or redistribute software and/or software keys licensed to Rowan-Cabarrus Community College.
- It is my responsibility to know and observe the acceptable use policies of external networks accessed via RCCC's Internet connection.
- It is my responsibility to ensure that the performance of RCCC's network is not degraded and that authorized users are not deprived of Internet and/or network resources or access by my activities. It is my responsibility to avoid the knowing or inadvertent spread of computer viruses.
- It is my responsibility to ensure that all copyright laws, including licensing restrictions, are honored. I understand that ownership of text, music, software, and other media is proprietary and, therefore, is protected to the full extent of the law and must be respected.
- It is my responsibility to not intentionally interfere with the normal operation of computer networks or illegally gain access (i.e., hack) to the networks and the information contained within the network resources or attached equipment.
- It is my responsibility to ensure that use of the network and Internet is consistent with student behavior and conduct guidelines and is not for personal financial gain.
- I understand and agree that RCCC may inspect, monitor or disclose Internet, electronic mail, and/or network activities when required by and constituted by law when there is substantiated reason to believe that violations of any federal, state or local law or any violation of Rowan-Cabarrus Community College policies or procedures have taken place.
- It is my responsibility not to view, download, save, receive, or send material(s) related to or including:
 - Offensive content of any kind, including obscene material.
 - Discrimination on the basis of race, gender, national origin, age, marital status, sexual orientation, religion, or disability.
 - Threatening or violent content or behavior.
 - Illegal activities.
 - Gambling.

- Personal financial gain.
 - Forwarding email chain letters.
 - Spamming email accounts from RCCC's email services or company machines.
 - Dispersing corporate data to RCCC's customers or clients without authorization.
 - Personal use that states or implies RCCC's sponsorship or endorsement of its message.
- RCCC has the right to review any materials stored on any system provided by the college and to edit and remove any materials. I hereby waive any right which I may otherwise have in and to such materials.

Student Agreement Regarding Academic Testing Center Usage

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

- Identification will be required for testing - driver's license or picture ID.
- Students must know course name and number, instructor's name, and course type.
- All books, book bags, and coats will be left in a specified location.
- Disruptive devices (cell phones, beepers, etc.) are to be turned off and not used.
- No notes, books or other supplemental materials will be permitted unless specifically stated on the instructor's "Conditions of Testing" form.
- No discussion of any type will be permitted while testing. We are attempting to create a similar environment to in-class testing.
- All tests will be taken in one sitting and returned to the Facilitator before leaving the ATC.
- The Dean, LRC may consult Student Services or Security if suspicious or questionable behavior is observed. The rules of student behavior and sanctions also apply to the ATC.
- Please see the ATC Facilitator and/or Dean, LRC, if you have questions regarding this agreement or a testing concern before receiving the test.

Information About Special Students

All students are special at RCCC; however, some students have special needs.

Special Credit Students

Some students wish to register for credit courses, but do not intend to complete a degree, diploma, or certificate program. These students are registered as Special Credit students. They can enroll in classes on a space-available basis and with the approval of their college advisor. Tuition and fees are the same as for regularly enrolled program students. If these students later wish to apply credits earned toward a degree or diploma, they must request a change in their status at the Student Services Office. A change in status must be submitted when the student has earned 18 semester hours (including a college-level English and math course) as a Special Credit student. The student must meet all the regular admission requirements for specific programs.

Policies Regarding Students With Disabilities

Disability services at RCCC are offered to assist students with disabilities in achieving their educational and vocational goals and to comply with section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990. The college's goal is to make

RCCC accessible for all students. In order to minimize the effects of a student's disability on his/her classroom performance, a reasonable adjustment or accommodation is provided as long as an accommodation or an adjustment does not alter a published course competency or course standard. Services are provided based on documentation provided by the student and the individual's particular need and circumstance.

I. Request for Assistance or Accommodation

- A. Students seeking assistance or accommodation are responsible for making their disability known to the Disability Services Counselors in the Office of Student Services. Students may elect to disclose a disability at any time. RCCC may not seek out and identify students with disabilities. Disability Services provides support services in curriculum, continuing education and pre-college courses. Because disability accommodations are not automatic and often require specific arrangements, students seeking disability accommodations should make contact with Disability Services for any additional information as soon as possible.
- B. Students are encouraged to contact Disability Services as soon as possible. Requests for accommodations should be made at least three weeks prior to the first day of class for which the accommodations are requested.

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

II. Required Documentation

- A. Students seeking assistance or accommodation must provide documentation from an appropriate professional. Required documentation includes the results of medical, psychological, educational and/or emotional diagnostic tests or evaluations that verify both the need for accommodation and the specific type of accommodation requested. Specific documentation guidelines are available through Disability Services.
- B. Documentation will be considered confidential and will be maintained by Disability Services. Disability documentation is not a part of the academic record. This information will be considered confidential and is to be shared within the institution on a need-to-know basis only. Disability records may be destroyed five years after the student's last enrollment.
- C. For students with learning or other non-apparent disabilities, documentation should be current, which is generally considered no older than three years. Students who provide documentation showing a history of disability may be granted accommodations for one semester in order to allow the student an opportunity to update older documentation; however, accommodation beyond one semester will be dependent upon the student providing current documentation.
- D. RCCC may also require an assessment by the Office of Vocational Rehabilitation as part of the documentation.

III. Accommodation Plan

- A. Upon a student's request for accommodation and a review of appropriate documentation, the student and a Disability Services Counselor will develop an accommodation plan in consultation with faculty as appropriate or necessary. The plan will outline specific accommodations or adjustments. These may include physical, testing, instructional, academic support and/or equipment accommodations. Requested accommodations must be supported by documentation.
- B. The accommodation plan may include a pre-determined schedule of meetings to monitor progress with a Counselor or the Coordinator of Disability Services. A copy will remain on file with Disability Services.

- C. The accommodation plan must be reviewed and/or updated with each semester registration. Accommodations are not automatic and must be requested in advance. Accommodations will not be granted retroactively.
- D. Students are expected to maintain contact with Disability Services as to the implementation and effectiveness of specific accommodations. Students should immediately report any concern regarding their accommodation plan to Disability Services.
- E. RCCC does not provide services of a personal nature outside of the classroom. Arrangements for personal services are the student's responsibility.
- F. All students are expected to comply with college policies and regulations as outlined in the RCCC College Catalog/Student Handbook.

IV. Accessible Services, Materials and Equipment

A. Instructor Notification

- 1. Instructor notification is not automatic and must be initiated by the student. Following class registration, the student must request an Accommodation Notification form through Disability Services. The student will then deliver the Accommodation Notification to each course instructor. The student must obtain the instructor's signature, provide a copy for the instructor, and return the completed form to Disability Services. Accommodation will not be in effect until the completed form is returned.

B. Classroom Notes

- 1. Students with specific functional limitations may request assistance with classroom notes. A determination of the method for obtaining classroom notes is based on disability documentation, course format and the course instructor's recommendation.
- 2. Classroom notes will generally be obtained by the utilization of a tape recorder or a volunteer classmate. Carbonless duplication paper is available upon request through Disability Services as well as a photocopy machine. Students are generally responsible for providing and operating the tape recorder along with tapes and batteries. Disability Services does have a limited number of tape recorders available in the case of an emergency.
- 3. When presenting an Accommodation Notification form, the student informs the instructor that notes will be needed and asks for assistance to identify a volunteer. In the event that either the volunteer system or tape recorder is not successful, immediately contact Disability Services.
- 4. A volunteer note-taker or tape recorder does not excuse class attendance. Students receiving class notes accommodation should not expect notes for days missed unless special arrangements are made in advance.
- 5. Based on the inability to access reasonable and appropriate classroom notes through the use of a tape recorder or volunteer, a student may be eligible for a staff note-taker/scribe. This accommodation will be determined on an individual basis. The student should contact and inform Disability Services regarding the cancellation of staff note-taker/scribe services. The staff note-taker/scribe will wait 15 minutes following the scheduled class start time. The staff note-taker/scribe will not remain in the classroom when the student is absent. If the student fails to arrive by the second class, the staff note-taker/scribe will assume that the student will be absent for the remaining classes. The student will be expected to obtain missed notes in the same manner as other students.

C. Alternative Testing

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

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

D. Accessible Materials

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

E. Interpreters

1. Interpretation and transliteration services will be arranged for qualifying deaf and hard-of-hearing students for scheduled classes, labs, scheduled student activities, and appointments. Every attempt will be made to honor a student's communication preference; however, other arrangements may be made depending on the time of advanced notice and availability of interpreters.
2. Students must request services in advance to assure that services can be arranged. Due to the national and local shortage of sign language interpreters, students are asked to provide a three-week advance notice for scheduled classes and a one-week notice for scheduled activities or appointments.
3. Students who request interpreter services and plan to be absent or find that services are not needed must cancel arrangements immediately through Disability Services.
4. In the event of an unreported absence, the interpreter will wait 15 minutes following the scheduled class start time. The interpreter will not remain in the classroom when the student is absent. If the student fails to arrive by the second class, the interpreter will assume that the student will be absent for the remaining classes. The student will be expected to obtain materials in the same manner as other students.
5. If a student has three unreported absences in a given class, interpreter services may be terminated until the student meets with the Coordinator for Disability Services. The student will be notified in writing.
6. Students should report any concern or problem involving an interpreter to the Coordinator of Disability Services.

F. Adaptive Equipment

1. Various adaptive equipment or software for on-campus use can be made available to qualified students as a part of a specific classroom accommodation plan. However, any prescriptive or personal devices, including those for home use, are the responsibility of the student.
2. As a part of the accommodation plan, the qualified student will be able to sign out equipment, such as modified calculators or assistive listening devices, from the Learning Resource Center (LRC) on a daily basis. Other equipment, such as software or modified keyboards, will be available in the assigned classroom or LRC.
3. Every attempt will be made to provide appropriate training to enable the student to effectively utilize specific equipment or software. Such training will require active student participation, advance notice, and additional time on campus.

G. Reduced Course Load

1. Students who have documented disabilities may be entitled to a reduced course load and extended time to complete a specific program while maintaining full-time student status as long as doing so does not fundamentally alter the academic program, specific coursework, or a satisfactory progress provision. Eligibility for this accommodation will be determined on an individual basis by RCCC Disability Services with the approval of the Vice President of Student Services.
2. Students who are granted a reduced course load accommodation will be considered as full-time students for the requested semester. Continuing accommodations are not automatic so a new request for a reduced course load must be made each semester. Reduced course (credit) load will result in an adjustment to federal and state financial assistance.
3. A copy of the Reduced Course Load Accommodation Policy will be maintained in the student's academic record and will be included, as appropriate, requested or required, with any enrollment verification for the requested semester.

H. Personal Services**1. Personal Attendants**

- a. Students are responsible for providing for their own personal health and hygiene needs along with their mobility needs within the classroom and around campus.
- b. Due to regulations and space limitations, personal attendants generally may not attend class with the registered student unless the accommodation is supported by disability documentation as a health/safety issue and is included in the student's accommodation plan.

2. Attendance

- a. Disability Services does not have a role in determining course attendance policies. Students are expected to attend scheduled classes regardless of their disability. Students may request that instructors be informed as to the legitimacy of disability-related absences, but such notification will not excuse or alter the course attendance policy.
- b. Students anticipating absences should notify the course instructor in advance. Students are also responsible for all missed assignments and material.

3. Tutoring Services

- a. Tutorial services are scheduled in specific content areas campus-wide through academic programs as appropriate. Qualified students are encouraged to request accommodations in order to utilize those services.
- b. Students are responsible for individual tutoring or individual instruction outside of the scheduled activities offered through academic programs.

4. Parking

- a. Accessible parking is available in accordance with state and federal regulations. Students are required to follow all appropriate regulations and to have a North Carolina-issued permit visible when parked in an accessible or handicapped space.
- b. Accessible parking is available on a first-come, first-served basis.
- c. Any student wishing to address accessible parking issues should contact Disability Services.

V. Grievance Process

- A. Students who experience a problem and/or feel unfairly treated should attempt to resolve the problem informally with the Coordinator of Disability Services.
- B. Concerns regarding a specific accommodation will be resolved with the involvement of the student and the appropriate instructor, Program Head, Academic Dean,

Academic Vice President, and Vice President of Student Services.

- C. If a concern cannot be resolved to the student's satisfaction, the student should utilize the Student Grievance process as outlined in the RCCC College Catalog/Student Handbook.

VI. Program Evaluation and Development

- A. In consultation with faculty and staff, the RCCC Counseling Staff will be responsible for evaluating services at RCCC for students with disabilities and recommending changes in policies, procedures and services as appropriate.
- B. The RCCC Counseling Staff will provide guidance and support to both faculty and staff in providing services for students with disabilities.
- C. The RCCC Counseling Staff will provide in-service training and information to RCCC faculty and staff as appropriate. Professional consultants in the area of services for students with disabilities may be utilized in specific cases and in staff development efforts.

International Admissions

The college is authorized under Federal law to enroll non-immigrant international students. Non-immigrant students will be accepted to begin classes in the Fall Semester only. To be considered for admission, an international student must present to the Office of Admissions and Records the following information:

- A completed application, received no later than June 15.
- Forward a certified copy of his/her official high school diploma and transcript from all high schools and post-secondary institutions the student has attended, and English translation of the documents.
 - Evidence of international high school graduation can be a document evaluation from a reputable U.S. evaluation service. The student will submit an official evaluation plus the official high school document.
 - For transcripts to be evaluated for possible college-level transfer credit, the translation must be provided by a NACES member evaluation service and be a course-by-course evaluation. A list of NACES member evaluation services is available in Student Services or at <http://www.naces.org/members.htm>. The student will submit an official evaluation plus the official post-secondary transcript.
- All financial documents must be originals - no copies will be accepted. A statement of financial support from the student's sponsor, and a statement from the sponsor's bank that there are sufficient funds, \$15,000 U.S. dollars, to support the student. If there is no sponsor, an original and official document that shows the student has on deposit sufficient funds to support his/her tenure as a student (\$15,000/year U.S. dollars).
- A minimum score of 500 on the Test of English as a Foreign Language (TOEFL) or a minimum score of 173 on the computerized version, or a minimum Internet Based Test (IBT) score of Reading 17, Listening 17, Speaking 16, and Writing 16. If any single score falls below the minimum, the IBT will not be considered. All scores must be received as official documents. No copies of scores will be accepted. TOEFL test scores must be within 2 years of the date of admission.
- After all required documentation has been received by deadline, and after approval by the Director of Admissions, the applicant may be issued his/her I-20.
- After applicant has received the appropriate visa allowing him/her to study at RCCC, he/she must present evidence of medical insurance coverage prior to registration.

RCCC does not have scholarship or loan funds for international students available at this time. The College does not provide dormitory facilities.

Admission of High School Students

Some college programs are available for enrollment of high school students. For specific information, see Huskin's Bill Classes, Dual (concurrent) Enrollment, and Intellectually Gifted Students under Academic Information and Policies.

The Cost

Tuition and registration fees are set by the North Carolina State Board of Community Colleges and the General Assembly and are subject to change. ***Tuition and fees are payable at registration.***

Tuition

Because the state helps pay the tuition of North Carolina residents out of tax dollars, tuition for **North Carolina residents is \$42.00 per credit hour, up to and including 16 credit hours. There will be a maximum charge of \$672.00 per semester**Tuition for non-resident students is charged at the rate of \$233.30 per credit hour with a maximum charge of \$3,732.80 per semester. The college accepts MasterCard and VISA credit cards for registration payment.

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

A resident student who is 65 years or older is exempt from paying tuition.

The college operates on the semester system, and all students are expected to register during the dates listed in the *Academic Calendar* in the front of this catalog.

The rates are subject to change by action of the General Assembly.

Technology Fee

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

12 or more credit hours	\$16.00 per semester
7-11 credit hours	\$10.00 per semester
1-6 credit hours	\$7.00 per semester

Student Activity Fee

Students at RCCC are required to pay a \$16.00 activity fee for fall and spring semesters (regardless of the number of credit hours enrolled). This fee covers student accident insurance each semester, transcript costs and student activities coordinated by the SGA.

Students pay a \$6.00 activity fee for summer term, regardless of the number of credit hours for which the student is enrolled.

Accident and Liability Insurance

Accident insurance, covering hours in school, is available for \$2.55 per semester. **This insurance is required of all students and is included in the student activity fee.** Health, Early Childhood Education, and Cosmetology students are required to purchase student professional liability insurance which is available for approximately \$13.00 per year.

Refunds

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

- A 100% refund will be granted if the student officially withdraws prior to the first day of the semester or prior to the day a class begins.
- Once the semester or class begins, a 75% refund will be issued if the student officially withdraws from the class(es) prior to or on the official 10 percent date of the semester.
- For classes beginning at times other than the first week of the academic semester, a 100% refund will be granted if the student officially withdraws from the class prior to the first class meeting. A 75% refund will be granted if the student officially withdraws from the class prior to or on the 10 percent point of the class.

Official withdrawal involves completing the proper withdrawal form through the Student Services Office prior to or on the 10 percent of the semester. Students must request a refund in writing prior to or no later than the 10 percent date of the semester.

See the *Academic Calendar* in the front of this catalog for the 10% date of each semester. Students are provided specific information regarding refunds at the time of registration.

Textbooks and Supplies

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

Financial Aid

General

Many students seek some form of financial aid to help meet their college expenses. Financial aid programs are available in the form of scholarships, grants, and work study programs. Financial Aid in Student Services can provide you with specific information.

You can qualify for financial aid if you (1) are accepted for admission as a student; and (2) you complete the Free Application for Federal Student Aid (FAFSA) and it indicates that you qualify. RCCC's school code for the FAFSA is 005754 for all campuses.

The college serves as a referral agency for:

Veterans Benefits
Social Security
Vocational Rehabilitation
Department of Social Services
Employment in Part-Time Work
Employment Security Commission

The college serves as a disbursing or coordinating agency for:

Supplemental Educational Opportunity Grants (SEOG)
Pell Grants

North Carolina Community College Grant
 North Carolina Student Incentive Grants
 Academic Competitiveness Grant (ACG)

Scholarships

Barnes & Noble Bookstore Scholarship
 Charles R. Benson Scholarship for Academic Excellence
 Cabarrus Regional Chamber of Commerce Motorsports Scholarship
 Cabarrus Rotary Club Scholarship
 Cabarrus-Rowan Heating & Air Conditioning Contractor Association Scholarship
 China Grove Civitan Memorial, Michael A. Johnson Scholarship
 Concord Rotary Club Scholarship
 Dai Nippon Scholarship
 Dora Anna Newton Nursing Scholarship
 Lane C. Drye Memorial Scholarship
 C.C. Erwin Memorial Scholarship
 F & M Bank Merit Award
 Food Lion Scholarship
 Forty & Eight Rowan County Voiture, 115 Scholarship
 Graham Spencer Endowed Scholarship
 Evelyn Kenerly Germann and William Joseph Germann Memorial Scholarship
 Susan E. Harrison Memorial Scholarship
 Clyde H. Harriss Memorial Scholarship
 Ralph W. Ketner Family Endowed Scholarship
 Sam R. and Louise May Endowed Scholarship
 Philip Morris USA Endowed Scholarships
 NC Education Lottery Scholarship
 National Starch Scholarship
 Nurse Education Scholarship-Loan Program (NESLP)
 Nurse Scholars Program (NSP)
 Nadine Potts/Jo Franklin Excellence in Nursing Scholarship
 Lillian C. Peeler Scholarship
 RCCC Academic Program
 RCCC Endowed Scholarship
 Rowan County Voiture 115 Forty-Eight Nursing Scholarship
 Rowan Regional Medical Center Auxiliary Scholarship
 Salisbury District Methodist Scholarship
 Salisbury Kiwanis Club Scholarship
 Salisbury Lions Club - Clyde H. Harriss Memorial Scholarship
 Salisbury Rotary Club Scholarship
 Salisbury-Rowan Home Builders Association Scholarship
 Salisbury-Rowan Home Builders Association Womens' Council Scholarship
 Salisbury-Rowan Life Underwriters' Scholarship
 The Salisbury Women's Club - Naomi E. Green Nursing Scholarship
 The Margaret C. Woodson Foundation Scholarship

***Most scholarship applications are available in the spring of each year
 for the following Fall Semester.***

The Financial Aid Office can provide you with information on other types of aid which may be available.

In addition to scholarships and grants, many Rowan-Cabarrus Community College students are employed on a part-time basis in college laboratories, offices, the library, or as grounds and office maintenance personnel. These work study programs may also constitute a part of your financial aid package if you meet certain criteria.

Applications for financial aid are accepted throughout the year, and assistance will be given as funds are available.

For more information on financial aid and scholarships, contact the **Financial Aid Office, 704-216-3633 (North Campus) or 704-216-3616 (South Campus).**

U. S. Department of Veterans Affairs Benefits

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

It is the responsibility of the veteran to request from the last high school and all colleges attended that an official transcript(s) be sent directly from the school to Rowan-Cabarrus Community College. Students cannot be certified to receive benefits until all transcripts have been received and evaluated.

Veterans receive educational benefits on the following basis:

- Arts and Sciences Courses - Credit Hours Per Week
- Occupational Courses - Credit Hours Per Week
- Telecourses and Internet courses qualify for benefits only if approved by the RCCC Certifying Official.

Veterans can now be certified for the NA I class taught by the Continuing Education Department of RCCC.

Certification Requirements:

	Credit Hrs.	High School Contact Hrs.
Full-Time	12 or more	18
Three-Quarter	9-11	13-17
Half-Time	6-8	9-12
Less Than Half-Time -Tuition costs and fees only.		

High School Training

An eligible veteran pursuing high school training may receive education assistance without a charge against his/her basic entitlement. Benefits are paid by contact hours.

Supplementary Tutorial Assistance

Free tutoring is available to veterans enrolled on at least a half-time basis who require individual assistance because of unsatisfactory grades.

Grades and Progress Reports

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

INFORMATION

ADMISSIONS
FINANCIAL AID



Academic Information & Policies

Academic Load - Students

A full-time student is one who is enrolled in 12 or more credit hours of course work per semester. Average full-time enrollment for most students will vary between 15 and 18 hours of credit. Students who wish to carry more than 21 credit hours must have prior approval from the Vice President of Student Services unless their curriculum requirements, as stated in the catalog, require more than 21 hours in a particular semester. Course schedules and course loads should be carefully planned through consultation with a counselor and approved by the student's faculty advisor. (Note: The NC General Assembly has set tuition and registration fees on a "per credit hour" basis with a maximum charge for 16 credit hours. Please see *Admissions* section of this catalog for further details.)

Administrative Office Hours

All college offices on both the North and South campuses are open Monday through Friday from 8 a.m. to 5 p.m. In addition, the Academic Programs Office on both campuses is open evenings, Monday through Thursday until 11 p.m.; the Occupational Extension and Student Services Office until 9 p.m. (Monday through Thursday) with some exceptions during non-academic term weeks.

Preparation for College Study

In order for students to be ready for college level work, all degree students will be required to take ACA 115 which is designed to provide skills and resources for college and career success. Emphasis is placed on an exploration of facilities and services, study skills, library skills, self-assessment, wellness, goal-setting and critical thinking. Students who transfer to RCCC with a baccalaureate degree or higher are exempt from taking ACA 115. Transferring students whose transcript notes a similar course will not be required to take ACA 115. Those students who have taken ACA 090 are not exempted and will be required to take ACA 115. For those students who are transferring from one degree program to another and have already successfully completed ACA 115, they will not be required to repeat the course.

Attendance Requirements

A student is expected to attend every class for which he/she is scheduled and to arrive on time. Instructors will keep an accurate record of class attendance. The student is responsible for contacting his/her instructor when unavoidable absences occur and for maintaining contact every few days during any necessary extended absence. Students are responsible for withdrawing from any class by completing the withdrawal form and obtaining the necessary signatures.

Instructional time missed is a serious deterrent to learning. A student is responsible for fulfilling the requirements of the course by attending all classes (including shops, labs, and clinics) and completing course assignments. Failure to maintain contact with the instructor for the equivalent of two weeks (1/8 of total instructional hours) either by attending classes, submitting assignments, and/or meeting with the instructor in person or by telephone, may result in a grade of "F" being issued for the course. In some cases, an exception may be granted. The student must contact the instructor if there are extenuating circumstances such as an accident, illness, or death in the family.

Some programs and courses at Rowan-Cabarrus Community College may have more stringent attendance requirements due to the nature of a course or program. These requirements are stated in the program description or course syllabus. Students will be informed in writing during the first class meeting of specific attendance requirements.

Class attendance is calculated from the first officially scheduled class meeting (includes the drop/add period) through the last scheduled meeting.

Class Schedules

Rowan-Cabarrus Community College schedules classes between 8 a.m. and 11 p.m., Monday through Thursday; and between 8 a.m. and 5 p.m. on Friday. Saturday classes may also be offered.

Credit courses are offered during the day and during the evening hours from 6:00 p.m. to 11 p.m. The purpose of offering credit courses both day and evening is to provide flexibility in scheduling and optimum availability of courses.

Complete schedule and course information are published by the college at the beginning of each semester and are available in the Student Services Office and on the college's website at www.rowancabarrus.edu/. Non-credit Occupational Extension and Community Service courses, which are available for occupational, personal, and community enrichment, are also offered both day and evening.

RCCC Closing — Adverse Weather

Classes at Rowan-Cabarrus Community College will be conducted as scheduled unless otherwise announced.

When classes resume after cancellation, the class schedule for that day of the week will be followed. Exceptions to this may be made by prior arrangements with classes meeting off campus, such as Nursing classes.

If day classes are canceled, evening students must listen for news regarding evening classes. This decision will be announced after 3 p.m.

The Office of the President will inform the radio and television stations listed below at the earliest time possible. Once cancellation of classes is announced for a day, this will not be rescinded. However, cancellation may be announced at any time the conditions warrant. For example: Afternoon and evening classes may be canceled after morning sessions have been held.

The student must make the ultimate decision on whether or not he/she can travel safely.

Radio and television stations are very helpful in making frequent announcements concerning school closings. ***Students are asked not to call the stations.***

Announcements concerning school closings also are posted on our website (www.rowancabarrus.edu) and can be accessed by calling either campus phone number (North Campus, 704-637-0760 and South Campus, 704-788-3197).

Radio and television stations that will announce RCCC closings are:

WSAT	Salisbury	1280 AM	WLTC	Gastonia	1370 AM
WSTP	Salisbury	1490 AM	WLXN	Lexington	1440 AM
WRNA	China Grove	1140 AM	WWGL	Lexington	94.1 FM
WRKV	Kannapolis	1460 AM	WXII	Winston-Salem	Channel 12 TV
WPEG	Concord	98 FM	WSGH	Winston-Salem	1040 AM
WBAV	Concord	101.9 FM	WSJX	Winston-Salem	600 AM
WEGO	Concord	1410 AM	WTOB	Winston-Salem	1380 AM
WBTV	Charlotte	Channel 3 TV	WTQR	Winston-Salem	104.1 FM
WCNC	Charlotte	Channel 6, 36 TV	WXRI	Winston-Salem	91.3 FM/1040 AM
WSOC	Charlotte	Channel 9 TV	WMAG/WHSL	Greensboro	100.3 FM
WBT	Charlotte	1110 AM	WHIP	Mooresville	1350 AM
WKKT	Charlotte	96.9 FM	WIST	Statesville	550 AM
WLNK	Charlotte	107.9 FM	WSIC	Statesville	1400 AM
WLYT	Charlotte	102.9 FM	WDSL	Mocksville	1520 AM
WSOC	Charlotte	930 AM/103.7 FM			

Faculty Advisors

Each student enrolled in a program is assigned to a faculty advisor or advising group who assists the student in planning course schedules. The faculty advisor also assists the student in evaluating his/her academic progress and suggests improvements or schedule changes.

Registration

The college operates on the semester system. All students enrolled in programs are expected to register during the time scheduled on the *Academic Calendar* as listed in the front of this catalog.

Registration for Continuing Education classes (non-credit) is conducted on both campuses and at the class sites.

Schedule Changes

At the beginning of Fall and Spring semester, there is a two-day period during which students who are enrolled in credit courses can drop and add courses. There is one day at the beginning of Summer which students may make changes to schedules. Students wishing to make a change after this time must see their instructor and program head.

Withdrawal Policy

If a student withdraws from a class after the end of the drop/add period and before the 80% point in the class, he/she will receive a grade of “WP” or “WF.” A Grade of “WP” or “WF” will appear on the student’s transcript, but will not be considered as hours attempted in the accumulated Grade-Point Average. If a student does not withdraw before the 80% point in the class, the student will receive a grade of “F” or the grade earned. Courses may be dropped at any time during the drop/add period of the class. *Courses dropped during this period will not appear on the student’s record.*

Once a student has enrolled in class and has paid fees, that student remains a member of the class unless:

A. Student Withdrawal

1. The student officially withdraws from the course.
2. The student transfers to another section of the course.
3. The student requests the instructor to withdraw him/her from the course (see the exception in #2 below under Administrative Withdrawal).

B. Administrative Withdrawal

1. Administrative withdrawal may be implemented as part of mediated resolution to violations of college “Student Behavior Standards”, and appropriate documentation may appear on the student’s official transcript, as needed; or
2. Administrative withdrawal may be implemented if a student fails to maintain contact with the instructor for the equivalent of two weeks (1/8 of total hours). Contact with the instructor is defined as attending classes, submitting assignments, and/or meeting with the instructor in person, email or by telephone. Failure to maintain contact will result in a grade of F (or the grade earned) being issued for the course. Exception: If absences are because of extenuating circumstances such as accident, illness, or death in the family, the student must contact the instructor who may submit a grade of “I” (Incomplete), “WP” or “WF” (Withdrawal Passing or Failing) or “F” (Failing).

ACADEMIC POLICIES AND PROCEDURES

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

Grading

Rowan-Cabarrus Community College operates on a grade-point system, and each student's academic standing is established by a "Grade-Point Average" (GPA) determined by numerical values assigned to each grade.

At the end of each semester, students will receive final grades based on the following scale, except for those students enrolled in Health Occupations programs and Developmental Studies courses.

For students enrolled in the Associate Degree Nursing and Practical Nursing programs, numerical grades below 77 (C) in all required courses are considered unsatisfactory attainment of course competencies. For students enrolled in the Radiography and Dental Assisting programs, numerical grades below 77 (C) in Radiography (RAD), Dental Assisting (DEN), and Biology (BIO) courses are considered unsatisfactory attainment of course competencies. ***In these instances, students will not be allowed to continue in the program.***

For students enrolled in the Real Estate program, a minimum grade of 80% is considered passing.

In Developmental Studies courses, a grade of 77 or above is required for satisfactory completion. Students earning numerical grades below 77 will receive the grade of "I*" (Incomplete) and must register again for the course. Developmental Studies courses are non-credit courses and are not included in the Grade-Point Average (GPA).

Letter Grade	Numerical Grade	Explanation	Quality Points for Credit
A	93-100	Excellent	4 quality points per semester hr.
B	85-92	Good	3 quality points per semester hr.
C	77-84	Average	2 quality points per semester hr.
D	70-76	Below Average	1 quality point per semester hr.
F		Failing	0 quality points per semester hr. Student did not meet minimum course objectives. Course must be repeated.
I		Incomplete	0 quality points per semester hr. Student did not meet course objectives due to unusual circumstances; requires written agreement between instructor and student. Work must be completed prior to the end of the following semester/term.
WP		Withdrew Passing	Officially withdrew on or before 80% of the class with a grade of "D" or better.
WF		Withdrew Failing	Officially withdrew on or before 80% of the class with a grade less than 70.
AU		Audit	Enrollment as a non-credit student. Changing registration status to Audit is not possible after the 10% point of a course.
CE		Credit by Exam	0 quality points per semester hr.
I*		Not Computed in GPA	0 quality points per semester hr. (Developmental Studies students' receiving an "I*" must register again and complete the entire course.)

Grade of Incomplete (I)

Students who need extra time to complete the objectives of a course because of unusual circumstances such as extended sickness or hospitalization may receive a grade of "I" (Incomplete). **This must be agreed upon in advance by the student and the instructor, with all work completed prior to the end of the following semester/term** . The "I" is computed in the Grade-Point Average as "0" quality points. However, when a student completes the provisions necessary for the removal of an "I," the "I" will be removed from the student's record. The GPA will then be recomputed using the grade earned. If work missed is not completed by the deadline given, the grade of "I" will automatically be changed to a grade of "F." The student must register again for the course.

Grade-Point Average (GPA)

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

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

Total Grade Points Earned	12	= 4.0 GPA
All Credit Course Hours Registered	3	

Since Developmental Courses are non-credit courses, they are not included in the Grade-Point Average (GPA).

Cumulative Grade-Point Average

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

Scholastic Honors

More information on the following academic honors lists may be obtained from the Student Services Office.

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

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

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

Since Developmental Courses (designated on transcripts with an asterisk) are non-credit courses, they are not included in the total hours required for President's, Dean's, or Honors lists.

Course Residency Requirement

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

Course Substitution

A student may request credit for a course required in his/her program of study based on successful completion of a substitute course. Action upon such substitutions must be initiated by the student's advisor who in turn forwards the request to the appropriate academic dean for approval. A maximum of five courses may be credited for any student through the course substitution method.

Course Repeat Rule

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

With approval, a veteran may repeat any course previously taken for which a final grade of "F" was received. This can be done only once. If a passing grade of "D" or better was received, the course cannot be repeated for V. A. benefits. Courses for which "WP" or "WF" were received may be repeated for Veteran's benefits, provided the veteran's cumulative GPA indicates overall satisfactory progress to date.

Auditing Courses

Students who wish to audit courses must register for those courses. If an audit is not declared at the time of registration, students must obtain approval from the instructor of the class and submit a Registration Change Form to Student Services for processing by the end of the 10% date of the semester. Students auditing courses receive no credit but are encouraged to attend class, participate in discussions, and take examinations. Normal attendance policies will apply. Students withdrawing during the semester will be given a grade of "W." Fees for audits are the same as for regular enrollment.

Academic credit is not earned for audited coursework. Therefore, any audited coursework will not be considered for transfer credit toward any other RCCC program. Audited courses are not eligible for transfer credit to another institution.

Tests and Final Examinations

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

Transfer of Credits - College Coursework

RCCC has adopted a ten (10) year age limit on credits transferred into an Associate in Applied Science degree (for either major courses or elective course requirements). This policy will also apply to General Education course work in the areas of Mathematics and Natural Sciences and for those courses in which the content is time sensitive. This policy applies to credits earned at RCCC as well as other regionally accredited institutions. Any incoming students may request a transfer of credits earned at another regionally accredited institution or in other programs within Rowan-Cabarrus Community College. Awarding of credits earned at a non-regionally accredited institution will be reviewed on a case-by-case basis.

An official transcript mailed directly from the transferring institution to the Student Services Office of RCCC will be required. Courses submitted for transfer credit must be

equivalent to offerings at RCCC. Exceptions to the transfer of credits may be made by the appropriate Program Head and the Academic Vice President. Only courses with grades of a "C" or higher will be accepted for transfer, provided the courses are applicable to the curriculum of interest. Quality points will not be transferred. **No more than 75% of required credit hours can be accepted for transfer credit.**

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

Ordinarily, full credit will be transferred for similar courses if the number of credit hours in the two courses under comparison are the same.

Students receiving an Associate in Arts degree or Associate in Science degree from RCCC will find those credits transferable to most colleges and universities. Students receiving an Associate in Applied Science degree will find their credits transferable to most private colleges in our area. Students should consult the receiving institution to determine the credits that will transfer from the program in which they are enrolled. A student may obtain general information about Cooperative Programs such as Fire Protection and Biotechnology from the Admissions Office, and is responsible for seeking specifics and complete requirements from the school that awards the degree.

Transfer of Credits - Professional Certificates

An enrolling student may request that professional certificates with appropriate documentation be evaluated for full or partial course credit within his/her major. Additional criteria may be required along with the certificate to receive full course credit. For each area of certification, the appropriate program head will determine the RCCC course equivalencies and corresponding certification required for credit. The student should notify the program head of which course(s) the professional certification is to be applied by submitting the original professional certificate for review. The student should submit this information during the admissions process; however, a professional certification can be submitted at any time during the student's enrollment at the college. The program head will complete the Credit by Professional Certification form and submit it to the appropriate academic dean for approval along with a copy of the certification. Once approved by the dean, the documentation will be sent to Student Services' Records Department for assignment of credit to the permanent record.

No more than 75% of required credit hours for a degree or diploma can be accepted for credit in this manner. Professional certifications should be current, and program heads can provide information regarding time limits (i.e. within last five years) in order for credits to be awarded for a particular program of study.

RCCC Programs of Study accepting appropriate professional certificates: Air Conditioning, Heating and Refrigeration; Automotive Systems Technology; Computer Information Technology; Computer Programming; Construction Management; Electrical/Electronics Technology; Machining Technology; Medical Office Administration; Networking Technology; Office Systems Technology; Web Technologies; and Welding Technology.

Please check the RCCC website for updates and revisions to the technical programs of study that accept professional certifications for full or partial course credit.

Examples of professional certifications and related programs of study:

Automotive Service Excellence (ASE) Program Certificates - Automotive Systems Technology

Certified Professional Secretary (CPS) Credentials - Office Systems Technology or Medical Office Administration degree or diploma.

Credit by Examination

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

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

The examination for credit must be administered by the instructor during the first ten class days of the semester. Fees for credit by examination are the same as for regular enrollment. If the examination is completed satisfactorily with a grade of "C" or better, the instructor will then complete a "Credit By Examination" form and forward it to the Director of Records for a grade of "CE" to be awarded.

A student who is unsuccessful with the examination may not request a second attempt but may remain in the course through completion of the semester. The decision of the examining faculty is final.

Credits earned by examination will be entered on the student's permanent record, but quality points will not be awarded for such credit. Credits earned by examination may be used to satisfy graduation requirements but **can not** be used to satisfy the policy stating 25% of the credits required for graduation must be taken at RCCC. Hours earned by credit by examination will **not** be used to satisfy VA or Pell Grant requirements. Hours earned by Credit by Examination are not transferable to other colleges. For further information, contact the program head of your area of study or the Student Services Office. Students receiving financial aid, scholarships or third party payment of tuition are responsible for checking with the Financial Aid Office before requesting Credit by Examination.

Advanced Placement for High School Courses

Students entering Rowan-Cabarrus Community College from Rowan-Salisbury Schools, Cabarrus County Schools, and Kannapolis City Schools may be awarded advanced placement credit as provided in agreements between these school systems and Rowan-Cabarrus Community College. Advanced placement may also be awarded to those students taking appropriate high school coursework and meeting guidelines established by the High School to College Agreement between the N.C. Department of Public Instruction and the N.C. Community College System.

Advanced placement credit based on high school achievement may be allowed to students enrolling in specified programs. Details concerning specific requirements are available from counselors at the high schools and at Rowan-Cabarrus Community College.

Early College at RCCC

Early College is an educational partnership between RCCC and school districts in Rowan and Cabarrus County. This partnership provides high school students an opportunity to earn both high school and college credits during four years of enrollment in an early college program. By earning enough credits, a graduating high school senior could exit high school with an associate degree and be ready for workforce employment or transfer to a four-year college or university. The student must enroll as a high school freshman to pursue this opportunity. College tuition for Early College students is waived.

Early College programs are administered by the local educational agency (school district) but housed on the college campus. To learn more information about Early College opportunities in Rowan or Cabarrus County or with Kannapolis City Schools, please contact these school districts.

Huskins Bill Classes

RCCC offers Huskins Bill classes to qualified students at participating area high schools. Qualified students are defined as high school Juniors or Seniors or anyone who is 16 and over who have achieved a level of academic and social maturity necessary to perform successfully in college credit courses and who have also been recommended by their high school for enrollment. Upon successful completion of courses, this program allows students to earn college credits and high school credits while attending high school. High school credit will be based on credit hour equivalencies determined by the local school system. **Students enrolled in Huskins Bill classes are exempt from college tuition** To participate in these courses which are established specifically for high school students, the student must be recommended by the high school, make appropriate scores on the college placement test, submit a high school transcript, and meet course prerequisites. Students interested in Huskins Bill classes should contact their high school counseling office.

Dual (Concurrent) Enrollment

High school students who are at least 16 years of age, are taking three (3) or more classes in high school (2 if under a block schedule), and are making satisfactory progress toward graduation may concurrently enroll in regularly scheduled RCCC college-level credit or Continuing Education courses when certain conditions are met.

Students must complete the enrollment process, take all college placement tests (COMPASS and computer skills), submit a Request for Dual Enrollment, and meet course prerequisites. Registration is limited to two college-level courses per semester upon approval of the school's chief administrative officer and approval by the designated college official. The college course(s) cannot duplicate a course offered at the student's high school.

For curriculum courses, the tuition fee is waived; students pay applicable fees and are required to purchase their own textbooks. For Continuing Education courses, the cost of courses and fees are not waived. The Dual Enrollment student earns college credit for curriculum courses taken. Each local school board determines if any credit will be granted at the high school.

Intellectually Gifted Students

Under certain circumstances, a student under the age of 16 may enroll in a community college if the President of the College or the President's designee finds that the student is intellectually gifted and has the maturity to justify admission to the College. The State Board has adopted specific criteria for the administration and implementation of this program. Please contact the RCCC Admissions Office for detailed information about student eligibility, course eligibility, and the required documentation.

GRADUATION

Application for Degree, Diploma, or Certificate

In order for the Student Services Office to have all the degrees, diplomas, and certificates ready in time for graduation, students are asked to notify that office no later than the semester preceding their expected date of graduation. Special forms for this purpose are available from the Student Services Office and the college website. Students are responsible for ensuring that they have met all program and course requirements to earn the degree, diploma, or certificate to which they are applying.

Degree, Diploma, and Certificate Requirements

Students who successfully complete a two-year technical education program will earn the Associate in Applied Science degree. Students who complete the Arts and Sciences program will earn the Associate in Arts or Associate in Science degree. The Diploma is awarded to students who satisfactorily complete a one-year vocational program or the general education core for the Associate in Arts or Associate in Science program. Students who satisfactorily complete programs of study less than a year in length are awarded a Certificate.

A student is scholastically eligible for graduation when he/she has satisfied the specific requirements of the college and the program for which he/she is enrolled, completed a minimum of 25% of required hours in residence at RCCC, and has earned a program grade-point average of at least 2.0.

A student may graduate using the catalog under which he/she initially enrolled or the current catalog. A student not enrolled for 12 consecutive months (or more) will re-enter under the current catalog.

Graduation Events

Graduation exercises to award degrees, diplomas, and certificates are held at the end of the Spring Semester. The specific date of graduation is listed in the *Academic Calendar*. Graduation rate information for Rowan-Cabarrus Community College is available on the college website (www.rowancabarrus.edu) and in the Office of Student Services.

Graduation Honors

Students who earn a grade-point average of 3.0 through 3.49 out of a possible 4.0 in completing their course of study will graduate "With Honors." Those students who earn a 3.5 and higher out of a possible 4.0 will graduate "With High Honors." Those students who earn a 4.0 will graduate with "Highest Honors."

Outstanding Student Awards

These awards are made to the graduates who have distinguished themselves by being most outstanding in terms of scholastic achievement, performance, and maturity of purpose during their program of instruction at Rowan-Cabarrus Community College. One student may be recognized for each program.

W. A. Swing Memorial Award

The W. A. Swing Memorial Award is presented to recognize the graduating student in Radiography who has demonstrated professionalism, dedication, the desire to succeed, and superior performance to the limit of his/her capabilities.

Student Records

The Student Services Office keeps complete student records. Each student, however, is responsible for making certain that all of the requirements for graduation have been met. For that reason, students are encouraged to check their records periodically, especially prior to registration for their last semester.

Transcript Request Policy

Students and former students needing copies of their academic transcript must request them from the Student Services Office. The request **must** be submitted in **written form** with the name and address of the institution or individual who is to receive the transcript. The form

must bear the original signature in pen or ink by the student. **Faxed requests will be honored only if the transcript is forwarded directly to the college or university. Phone or email requests are not acceptable** . Costs of transcripts are covered by the student activity fee, so there will be no charge at the time of the request.

Transcript requests must be made two business days prior to the date needed. Transcripts are available, if possible, after 2:00 pm each day.

Confidentiality of Student Records

To All Students and Parents of Students Currently Attending Rowan-Cabarrus Community College:

The Family Educational Rights and Privacy Act (FERPA) is a Federal law that governs the maintenance of student records. Under the law, students enrolled in post-secondary institutions have the right to inspect records kept by the college about the student and the right to correct inaccuracies in the records. Access to the records by persons other than the student is limited and generally requires prior consent by the student. Rowan-Cabarrus Community College adopted a written policy governing the rights of parents and students under the Family Educational Rights and Privacy Act. Copies of this policy may be found in the offices of the President and the Vice President of Student Services at Rowan-Cabarrus Community College.

Directory information to include student's name, address, telephone listing, date and place of birth, field of study, dates of attendance, and degrees and awards received may be released by the school without consent of the student. Any student who objects to the release of directory information must notify the Vice President of Student Services in writing. This written objection must be filed within five days after the student's enrollment begins.

STANDARDS GOVERNING STUDENT ENROLLMENT

General

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

Academic Standards

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

Advising Students Who Experience Academic Difficulty

Instructors are responsible for keeping students informed regularly about their progress in individual courses, with specific responsibility to expedite the reporting of student performance at each measurement point (chapter tests, mid-terms, finals, etc.). Instructors and advisors are responsible for assisting students who are experiencing academic difficulty. Advice to help students improve performance may include, but is not limited to, completing developmental education courses or subcomponents of developmental programs, carrying a reduced course load, special tutoring, or repeating selected courses. Semester grade reports are sent to all students. The faculty advisor and student should arrange a conference with a Student Services counselor whenever the nature of a student's academic difficulty is beyond the scope of the instructor or faculty advisor's ability to assist. Failure to maintain satisfactory academic standards will result in academic probation and can result in academic suspension.

Academic Probation

A student who fails to maintain satisfactory academic standards at the end of any term will automatically be placed on academic probation for the next term. A student placed on academic probation will not be allowed to register and/or begin class until the student has (a) attended an Academic Probation Workshop or (b) met with a Student Services counselor. Either of these establishes corrective conditions to help the student achieve satisfactory performance while continuing probationary enrollment. The hold on registration/class attendance would then be lifted and documentation of the corrective actions placed in the student's file. A student on academic probation who fails to achieve satisfactory academic standards by the end of the academic probationary term is subject to academic suspension and will not be allowed to register for the next term without the permission of the Vice President of Student Services or his or her designee.

Academic Suspension

At the end of each semester, the counseling staff at the direction of the Director of Counseling and Career Services, will review the cases of all students on academic probation who failed to achieve satisfactory academic standards. Unless they are able to document individual cases of extenuating or mitigating circumstances that, in their professional judgement, justify extending academic probation for another semester, a recommendation for academic suspension may be made to the Vice President of Student Services.

However, students suspended from one program may apply for admission to another program where the likelihood of achieving satisfactory academic standards may be more promising. After one semester of academic suspension, a student may also apply for readmission to the program from which he or she has been academically suspended if the sequence of course offerings makes readmission possible.

Academic Appeals Committee

Appeals of academic suspension will be referred by the Vice President of Student Services to the Academic Appeals Committee no later than five days after receipt. The Appeals Committee will be comprised of the vice president, the student's advisor, a counselor, two students selected by the Student Government Association, and the program head of the program from which the student has been suspended. If the Academic Appeals Committee reverses suspension, the student will be afforded an opportunity to make up all work missed during the appeal process.

Student Behavior Standards/Sanctions, Warnings, Discipline Penalties, Dismissal

Behavior Standards

The college may discipline a student in the following situations:

1. For conduct that damages or destroys or attempts to damage or destroy, college property or property of others on college or college-related premises.
2. For conduct which constitutes a danger to the personal safety of other members of the college community, including guests or licensees of the college. Intentionally causing or attempting to cause injury is included within the meaning of this provision.
3. For conduct that obstructs or seriously impairs or attempts to obstruct or seriously impair college-sponsored or college-authorized activities on the college campus or other location where a college-sponsored activity is carried on.
4. For abusive or threatening behavior to any member of the college community, including guests or licensees of the college.
5. For unauthorized possession or attempted possession of college property or property of a member of the college community.
6. For acts which violate board or college rules and regulations.
7. For making a knowingly false statement, either orally or in writing, to any employee or agent of the board of the college with regard to a college-related matter.
8. For forging, altering, or otherwise misusing any college document or record.
9. For knowingly possessing, using, transmitting, selling, or being under the influence of any controlled substance or illegal drug (1) on the college campus or (2) off the college campus at a college-sponsored activity, function, or event. An individual's use or possession of a drug authorized by a medical prescription for that individual from a registered physician shall not be a violation of this provision. A student shall not knowingly possess, use, transit, or be under the influence of any alcoholic beverage, or intoxicant on the college campus or any college-sponsored activity, function or event.
10. For academic dishonesty, which shall in general mean conduct which has as its intent or effect the false representation of a student's academic performance, including but not limited to (a) cheating on an examination; (b) collaborating with others in work to be presented; (c) plagiarizing, including the submission of others' ideas or papers (whether purchased, borrowed, or otherwise obtained) as one's own; (d) stealing or having unauthorized access to examination or course materials; (e) falsifying records, laboratory or other data; (f) submitting, if contrary to the rules of a course, work previously presented in another course; and (g) knowingly and intentionally assisting another student in any of the above including assistance in an arrangement whereby any work, classroom performance, examination or other activity is submitted or performed by a person other than the student under whose name the work is submitted or performed.
11. For the unauthorized use of the name of the college or the names of members or organizations in the college community.
12. Other situations that violate college rules and/or local, state or federal statutes.
13. Sexual harassment of students or employees of the college. Sexual harassment may be defined as making unwanted or unwelcome requests for sexual favors, or other unwanted or unwelcome verbal or physical conduct of a sexual nature.

14. Possession of firearms and weapons are violations of state laws on college campus. RCCC defines weapons as guns of any type (paintball, handguns, long guns and muskets), knives and ammunition.

Any violation of standards that constitutes a civil offense will be referred to appropriate civil authorities.

Expulsion from Class

Discussion of all views relevant to the subject matter is necessary to the education process, but students have no right to impinge on the freedom of instructors to teach or the right of other students to learn. If a student behaves disruptively in class after the instructor has explained the unacceptability of such conduct, the instructor may tell the student to leave the class and then must notify both the Academic Vice President and the Vice President of Student Services as soon as the class is over.

Violations and Sanctions

Violation of student behavior standards of Rowan-Cabarrus Community College policies or of North Carolina and federal laws while on campus or while off campus when participating in activities sponsored by Rowan-Cabarrus Community College, subjects violators to appropriate sanctions. Complaints or other indications that a student has violated behavior standards will be investigated by the Vice President of Student Services to determine whether the charges are significant or whether they may be dropped or informally resolved.

Prior to the vice president's imposition of discipline, a detailed report must be documented for the record, including the specific misconduct, the facts in the case, the supporting reasons for the vice president's decision, and a statement of the discipline to be imposed. If formal disposition is required, the following actions may be taken, depending on the seriousness of the misconduct.

Warning

The Vice President of Student Services may, in appropriate cases, counsel the student about the misconduct and warn the student that further instances of misconduct may result in discipline penalties or dismissal. This warning must be documented in writing with a copy given to the student and one placed in the student's record.

Discipline Penalties

In appropriate cases, the Vice President of Student Services may impose disciplinary penalties as a condition for continuing enrollment. The penalties may include, but are not limited to, a written reprimand; an obligation to make restitution or reimbursement; an obligation to perform up to 25 hours of uncompensated work for the college; or any combination of these penalties. The effectiveness of discipline penalties is dependent upon the student's willingness to accept the judgment of the vice president as well as the discipline penalties imposed by the vice president. Documentation must be signed by the vice president, as well as a statement of voluntary and willing acceptance, handwritten and signed by the student.

Procedure for Appeal of Vice President's Discipline

A student who disagrees with the Vice President of Student Services' judgment and does not wish to accept the vice president's discipline may appeal through the vice president

to the president. A written appeal must be submitted to the vice president within ten working days of the date the student was informed of the vice president's discipline. The appeal must include the student's reasons for believing that an appeal is justified. The student must be informed of Due Process rights and must receive a copy of the form showing notification of Due Process. The vice president must forward the appeal to the president within five working days, along with the vice president's report of the facts in the case and the supporting reasons for the vice president's decision to discipline.

Procedure for Recommending Dismissal

If a violation of student behavior standards is too serious to be resolved by the Vice President of Student Services' discipline, the vice president must refer the matter to the President with a recommendation regarding dismissal. The vice president's recommendation must include documentation of all facts as well as the supporting reasons for the vice president's action. Before submitting such a recommendation to the President, the vice president must inform the student of his/her findings of fact and his/her recommended action. The student must also be informed of Due Process rights and must receive a copy of the form showing notification of Due Process. The vice president must document this meeting with the student in a Memorandum of Record which must be forwarded with the vice president's recommendation for dismissal.

Procedure for Hearings

The hearings necessary for reviewing appeals of the Vice President of Student Services' discipline or reviewing the vice president's recommendation for dismissal may be conducted directly by the President. The President may choose to appoint a hearing committee to assist in the process. A hearing committee will consist of three full-time faculty or staff members as well as three full-time students who are not directly involved in the case. The President will appoint the members of the committee and may name one member as chairperson or may himself preside. A member of the staff in the Student Services Office shall serve as an ex-officio, non-voting member of the committee.

The purpose of a hearing committee is to examine the findings of fact and the conclusions with reference to the charges to determine if, in the opinion of the committee, the evidence presented supports the disciplinary action recommended by the vice president.

Hearings will be conducted in confidential, closed sessions. Due Process procedures will be followed. Counsel may serve in an advisory capacity during a hearing. A hearing committee must report its findings and conclusion in writing to the President as soon as possible after the close of the hearing.

If the President has appointed a hearing committee over which he does not preside, he will carefully consider the findings and conclusion of the committee in reaching a decision regarding an appeal from the vice president's discipline or a decision regarding student dismissal.

Readmission

A student who has been dismissed from Rowan-Cabarrus Community College may apply for readmission after one year. Approval of a request for readmission will be contingent upon satisfactory evidence that the unacceptable behavior which caused dismissal has been corrected and is not likely to occur again.

Student Grievances

When a student concern is expressed regarding classroom management/conduct, instructional methods, teaching effectiveness, or evaluation, students are expected to first attempt to resolve their concerns with the faculty member. If resolution is unsuccessful, the student may contact the program head and dean, in that order, who will then work with the student and faculty member to assist in the resolution process.

Should the student be unable to achieve resolution of his/her concern through these informal means, a copy of the college's grievance procedure may be obtained through Student Services. Student Services representatives are available at all times to advise the student regarding the resolution of student concerns, within the framework of college procedures.

Safety and Security • North Campus

The Security Department consists of approximately 20 professionally trained members of the Rowan County Sheriff's Office who safeguard and serve our campus. Security is responsible for the flow of traffic on campus, building security, and enforcement of traffic and parking regulations. These officers are uniformed and have the authority to arrest.

Reporting Emergencies on Campus

Red emergency phones are located in each building throughout the campus to report any fire, medical, or security emergency, or you may dial "0" on any office phone to contact the switchboard. If unable to access an emergency or office phone, the switchboard is located in the front entrance of Building 300. Please report the type of emergency, the location, and your name so appropriate personnel may be notified. On most occasions, security personnel are located in the parking lot and are available for assistance.

<u>CRIME STATISTICS</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
Murder	0	0	0
Sex Offense	0	0	0
(forcible and nonforcible)			
Robbery	0	0	0
Aggravated Assault	0	0	0
Burglary	0	0	0
Arson	0	0	0
Negligent Manslaughter	0	0	0
Motor Vehicle Theft	0	0	0

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

Safety and Security • South Campus

The Security Department consists of approximately 14 professionally trained members of the Kannapolis Police Department who safeguard and serve our campus. Security is responsible for the flow of traffic on campus, building security, and enforcement of traffic and parking regulations. These officers are uniformed and have the authority to arrest.

Reporting Emergencies on Campus

Red emergency phones are located in each building throughout the campus to report any fire, medical, or security emergency, or you may dial "7248" on any office phone to contact the Academic Programs Office. If unable to access an emergency or office phone, the Academic Programs Office is located in Room 201 of Building 1000. Please report the type of emergency, the location, and your name so appropriate personnel may be notified. On most occasions, security personnel are located in the parking lot and are available for assistance.

<u>CRIME STATISTICS</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
Murder	0	0	0
Sex Offense (forcible and nonforcible)	0	1	0
Robbery	0	2	0
Aggravated Assault	0	0	0
Burglary	0	0	0
Arson	0	0	0
Negligent Manslaughter	0	0	0
Motor Vehicle Theft	0	0	0

Security personnel are on campus to serve and protect employees and students. We urge you to report any suspicious persons or anything out of the ordinary in the buildings or parking lots to a security officer or dial 7248 from any campus phone. Upon request, security personnel will escort you to your vehicle for added protection.



Student Life

Student activities beyond the classroom are supported through RCCC's Student Services Office. A Student Services Office can be found on the North, South and the CBTC campuses. The office on the North Campus is located in Building 100. The South Campus office is located in Building 1000, Front Lobby. The CBTC office is in room 9138. At these offices, you can find out more about the following services.

Counseling

Professional counseling services are provided to students, prospective students, and the entire college community in the areas of personal, academic, and career counseling. The staff is comprised of trained counselors who are qualified to help individuals assess and understand their personal issues, abilities, aptitudes, interests, and other characteristics. Counseling services are confidential and are focused to promote the growth and success of the individual.

The counseling program is an integral part of the teaching and learning process. Counseling services are provided through the comprehensive work of the Student Services Office and are available on both main campuses day and evening. Counseling Services are also available at CBTC and Cloverleaf Plaza.

The CORE (Career Occupational Research Experience) program offers career-counseling services to students and citizens of the community. These services are offered in both individual and small group formats. State-of-the-art career development materials and programs are utilized to assist individuals in exploring career options, determining appropriate career choices, and then making short and long-range plans to achieve career goals.

Educational Placement

Rowan-Cabarrus Community College is committed to providing high-quality education to the citizens of Rowan and Cabarrus counties. Through a comprehensive assessment and placement program, the college assures that entering students have appropriate prerequisite levels of skill to be reasonably sure of success in further academic study. Results are used before registration to help the student plan a program of study.

Occupational Information

Information on occupations, educational programs, and job opportunities is available through the college to students and prospective students. The staff in the Student Services Office is available to assist anyone in finding and interpreting desired information.

Job Placement

A job placement service is available for Rowan-Cabarrus Community College students and alumni in the Student Services Office at both campuses. The Director of Job Placement and faculty keep in touch with area businesses and industries so that they will be aware of job opportunities in the various fields taught at the college. College Central Network (CCN) is available to students and employees to list resumes and review jobs posted by area employers (refer to www.rowancabarrus.edu/studentsservices/ccn).

The purpose of the job placement service is to help students establish contact with prospective employers and present qualifications for employment. Job-seeking skills, resumè writing, and interviewing skills are offered in an individual and small group setting.

The responsibility for getting the job rests entirely with the individual. Companies and other organizations that wish to consider graduates of Rowan-Cabarrus Community College are invited to call or write the Student Services Office. Interviews with prospective graduates are generally arranged on the campus during the Spring Semester and Summer Term. A representative from the Employment Security Commission is on campus weekly.

Student Participation in College Decision-Making

ROCCC encourages and provides for student involvement in institutional governance and decision-making through the following means:

The Student Government Association (SGA) elects student senate representatives from each academic division to provide input and recommendations to the college. The SGA Constitution, approved by the college's Board of Trustees, details the purpose and responsibilities of the SGA. Administrative and supervisory responsibilities for the SGA reside with the Vice President of Student Services and the Student Activities Coordinator. The SGA's elected president serves as a non-voting member of the Board of Trustees.

Students contribute to college decision-making through interaction with faculty and staff and through participation in campus clubs and organizations.

Student involvement also occurs through membership on advisory committees and task forces such as Developmental Studies, Students with Disabilities, and Diversity.

Student Government Association

Explanation and Functions

All curriculum students at Rowan-Cabarrus Community College are members of the Student Government Association (SGA) and have the chance to participate in the organization and control of student activities. In addition, membership in the SGA gives students the opportunity to learn responsible citizenship and gain practical experience in the democratic process.

There is more to life than books and classes at Rowan-Cabarrus Community College. What goes on outside the classroom is also very important. The school offers a wide variety of social and cultural opportunities which, as well as being enjoyable, expand the learning experience. Students are encouraged to plan their own activities and programs through the Student Government Association and may use any of the excellent facilities for assembly, theatre, club meetings, relaxation, and recreation.

The constitution and activities of the SGA are subject to the approval of the administration of the college.

Clubs

All students are invited to join departmental, service, and special interest clubs which are an important part of life at Rowan-Cabarrus Community College.

The following organizations are available:

- Art/Drawing Club
- Culture Connection
- Early Childhood Club
- N.C. Student Nurses' Association (SNA)
- Office Pro (CIAAP)
- Phi Theta Kappa (PTK)
- Practical Nursing (PN)
- Psi Beta
- RC3 Electronics Club
- Readers Circle Book Club

- Rotaract Chapter of Rotary International
- Skills USA - Cosmetology
- Skills USA - Automotive
- Student Government
- Welding Club

Students who are interested in forming a new club should contact the Student Activities Coordinator in Student Services concerning their particular interests.

Student Publications

RCCC respects the right of free and open discussion and encourages student involvement with publications created, developed, and funded through the SGA.

Student opinions in such publications do not necessarily reflect the position of the college. The student newsletter funded by the SGA is "**The Achiever**."

A faculty/staff advisor assists students in developing this publication in a manner consistent with responsible journalism, English composition, and the stated purposes of the college. The college has developed a policy and procedure for the development and review of student publications (Procedure No. 7.44).

Whenever the advisor of a student publication is unable to resolve issues regarding a student publication, the advisor will involve the Vice President of Student Services.

Intramural Sports

Intramural sports are organized as student groups desire through the Student Government Association.

School Colors and Mascot

Royal blue and white are the official school colors, and "The Warrior" is the name of the Rowan-Cabarrus Community College mascot.

OTHER SERVICES

Bookstore

Books and supplies you might need can be purchased at one of the college's bookstores. Each student is responsible for his/her own textbooks and supplies. Costs will vary according to curriculum. For purchases of textbooks, supplies, and other merchandise, the bookstores accept major credit cards. The bookstore on the North Campus is located in Building 500. The bookstore on the South Campus is located on the first floor of Building 3000.

Bulletin Boards

Bulletin boards are reserved for Student Services' information, the SGA, general student information, and articles to buy or sell. Some bulletin boards are designated for some divisions and departments.

Students are asked to check with the Student Services Office before posting any information.

Class Rings

To place an order for a Rowan-Cabarrus Community College class ring, a student must:

1. Be enrolled in a one-year or two-year occupational education program for which Rowan-Cabarrus Community College awards a diploma or associate degree.

2. Have satisfactorily completed a minimum of two semesters of the prescribed program.
3. Be currently enrolled for all courses in the third semester of the program or have completed such courses.
4. Show evidence of satisfactory academic standing. Students on probation are ineligible to place orders for school rings.

Class rings are purchased through the college's bookstore. GED graduates may order rings through the college's bookstore.

First Aid

First aid kits are located in each building on campus. Accidents which happen in class should be reported to the instructor. Otherwise, accidents should be reported to the Student Services Office.

Food Service

The college provides food service on both the North and South campuses. Vending machines are available in the student lounge at both campus locations.

Housing

Rowan-Cabarrus Community College does not provide dormitory facilities. Students who desire living accommodations should make arrangements in the local community.

Insurance

Accident insurance is available to all students at a cost of \$2.55 per semester. **This insurance is required of all students and is included as part of the activity fee.** Students taking Health Programs, Early Childhood Education, and Cosmetology are required to obtain student professional liability insurance at a cost of \$13.00 per year. The fee rate is subject to change.

Lockers

Lockers for general student use are available on a first-come, first-serve basis at the North Campus and are located in Building 100. Requests for a locker should be made in the Business Office in Building 300. Lockers are assigned on a semester-by-semester basis, and the student must renew the locker assignment each semester. Locks are removed from all non-renewed lockers at the beginning of each semester and all contents are disposed of.

Lost and Found

Lost and Found services are provided by the college. Any item found on the North Campus should be turned in to the receptionist located in Building 300. Items found on the South Campus should be turned in to the Student Services Office. These will be returned to the owner upon proper identification.

Parking

Citations for illegal parking will be given by campus security officers.

Parking is allowed only in designated areas, not in fire lanes. Spaces have been set aside for handicapped persons and are to be used by the handicapped only.

Overnight parking on college property is discouraged and should occur only in cases of emergency or when it is necessary in the performance of college business. When overnight

parking is required, the college Business Office must be notified so that security officers can be informed and so that the vehicle can be parked where it will not interfere with college activities. Vehicles parked on campus overnight without notification to proper college authorities may be towed at the owner's expense.

Student Centers

North Campus: Located on the ground floor of Building 500, The Eddie H. Myers Student Center is a spacious facility offering a beautiful view of the wooded area adjacent to the North Campus.

South Campus: Located on the bottom level of the 3000 building, South Campus students enjoy the casual environment, handsome decor, and assortment of vending machines their center offers.

CBTC: Student lounge areas are located on the west wing of each floor with vending options.

Telephones

Public phones are located at convenient locations at the Cabarrus Business and Technology Center and both North and South campuses. Please be considerate of your fellow students and limit your call to ten minutes.

Only in cases of emergency (such as sickness or family death) will messages be delivered to students.

Cell phones may be used in the public areas of the campus, but may not be used in classrooms, labs, tutoring centers or professional offices during meetings or appointments.

Health Services

Rowan-Cabarrus Community College provides both health education and services to meet the needs of students, faculty, staff, administrators, trustees, and visitors to our campus locations.

The location of the college is such that the campuses are easily accessible to medical attention and hospital care at Rowan Regional Medical Center, Pro-Med, Ro-Med, Tri-County Mental Health, Rowan County Public Health, and the VA Medical Center; and in Cabarrus County, at Northeast Medical Center, Urgent Care, Piedmont Behavioral Health, and Cabarrus County Public Health. Public ambulances are available to the Rowan and Cabarrus campus locations on a 24-hour schedule. First aid supplies are available to students in all laboratories, shops, classrooms, and offices. First aid supplies are available in the Student Services Offices and campus reception area at each campus. In the event of an accident or emergency, assistance can be obtained by contacting the Switchboard Operator or the Vice President of Student Services.

RCCC conducts various classes and seminars in the area of health and safety. Annual seminars are held on Bloodborne Pathogens, Hazardous Materials, AIDS Education, Fire Safety, and Drugs. The college has a policy and procedure concerning communicable diseases. This information is available in the office of the Vice President of Student Services.

Communicable Diseases

A communicable disease is an illness due to an infectious agent or its toxic products which is transmitted directly or indirectly to a person from an infected person or animal. Communicable diseases include, but are not limited to, acquired immune deficiency syndrome (AIDS), hepatitis, chicken pox, measles, meningitis, whooping cough, mononucleosis, mumps, and rubella.

Students and employees who know or believe they have been infected with a communicable disease have both a legal and ethical obligation to conduct themselves in a manner that will protect themselves and others. Individuals who contract a communicable disease are responsible for reporting this fact to appropriate RCCC officials. Students are to report this information to the Vice President of Student Services. All such information will be kept confidential. Only persons with a "need to know" will be informed with the direct knowledge of the affected student.

Employees and students with a communicable disease will be allowed to engage in work or study as long as they are able to meet acceptable performance standards and medical evidence indicates that their condition is not a threat to other persons on campus.

A student may be prohibited from attending RCCC until an appropriate evaluation of the student's medical condition can be completed. The assessment of a student's condition with a communicable disease and the final determination of that student's ability to stay in school will be made by the Vice President of Student Services after consultation with, and recommendation from, local health authorities. If a student is found to have a communicable disease that poses a risk to others, the Vice President of Student Services will prohibit the attendance of the student until such time that a letter is presented by one or more physicians certifying that further attendance is no longer a risk to others. Information and brochures on AIDS and other communicable diseases can be obtained from the Student Services Office.

To help prevent the spread of communicable diseases, students are cautioned to avoid contact with body fluids of other persons. Disposable plastic gloves and bags are located in first aid kits in each building. These can be used to clean up any body fluid spills that may be encountered and for the administration of first aid. In addition, proper handwashing is recommended as a prime precaution against the spread of disease. For assistance or further information, contact the Student Services Office.

To Solve a Problem

<i>If you need to</i>	<i>See the</i>
Drop or Add a Course	Advisor
Send a Transcript	Director of Records (Student Services Office)
Obtain Financial Aid	Director of Financial Aid (Student Services Office)
Get Help with Personal/Academic Problems	Counselor (Student Services Office)
Apply for Graduation	Student Services Office
Withdraw from Course	Course Instructor - Complete Form
Change Curriculum	Student Services Office
Get a Job	Director of Job Placement (Student Services Office)
Organize a Student Activity	S.G.A. (Student Services Office)
Change Name and/or Address on Records	Student Services Office
Arrange a Schedule	Advisor
Check a Grade	Instructor for that course
Make Up a Grade of Incomplete	Instructor for that course
Request a New Course-Curriculum	Office of the Academic Vice President
Inquire About General Adult and Occupational Extension	Occupational Extension & Community Services Office
Pay Bills	Cashier's Office
Locate Part-Time Instructor	Academic Programs Office



Learning Resource Centers

Learning Resource Centers (Library)

The Learning Resource Centers are an essential component of Rowan-Cabarrus Community College. The LRCs provide our patrons with library, audiovisual, Internet and instructional resources and services necessary to support the educational programs of the college. They also provide resources to meet the various needs, interests, and aptitudes of the students enrolled in lifelong learning.

RCCC has two full service LRCs, one on the North Campus and the Charles A. Cannon Library on the South Campus. Each LRC offers collections of books, magazines, newspapers, audiovisual materials, and equipment and access to electronic resources. North Carolina Libraries for Virtual Education (NC-LIVE) is also available with access to resources found in various databases, including information from newspapers, magazines, and professional journals. An Early Childhood Learning Laboratory special collection is also housed at each facility. Cabarrus Business and Technology Center (CBTC) and Cosmetology also have LRC services available to students at these locations.

The LRCs are open to students, administration, faculty, and staff as well as individuals in the community. The hours are posted on campus and on our website at www.rowancabarrus.edu/lrc/.

Students are encouraged to use these areas for study, research, recreational reading, browsing, or relaxing between classes.

All LRCs have access via Webcat to our online catalog and to other holdings through the Community College Libraries in North Carolina (CCLINC). These books may be requested (through interlibrary loan) by our students and faculty by placing a hold on the item to be borrowed. RCCC also provides a courier service to transfer materials daily between locations in our two-county area.

Books from the general collection are initially checked out for a two-week period and may be renewed. Interlibrary loan books are checked out for a two-week period. In addition, faculty may place reference and AV material on reserve as needed. Books on the reserve shelves may be checked out with instructor approval. Audiovisual materials and equipment are made available for student use in the classroom upon request. A coin-operated plain paper black and white copier plus a color photocopier are available at LRC North and South for student and public use.

Students may check their accounts online via their library card and pin number. Fines are charged for all overdue material (excluding Sundays and holidays). These fines must be paid before additional books are checked out and before students will be allowed to register for the next semester. Overdue notices are sent by mail.

The LRC personnel assist in locating and using LRC resources. The LRC personnel also support faculty and students with daily operations of the Interactive Television/North Carolina Information Highway (ITV/NCIH) classrooms on each campus. The LRC personnel also operate the Academic Testing Center (ATC) in the LRC North and South during specified hours which provides an opportunity for students to make up exams missed during regular class hours, to take tests for Telecourse and Internet classes, and for other reasons as needed.

Patrons are encouraged to take advantage of these services.

Mission Statement

The mission of the Learning Resource Center (LRC) is to advance the learning and research skills of the students, faculty, staff, and administration of Rowan-Cabarrus Community College by providing library, audio-visual, and instructional resources necessary to support the programs of the college and lifelong learning.

To accomplish this purpose, the LRC personnel will strive to meet the following objectives:

1. To develop a comprehensive Learning Resource Center with an atmosphere conducive to learning through the use of technology.
2. To develop and retain a dynamic trained staff to assist with the goals of active learning through technology by instructing and assisting patrons in the use of resources and services collected to support the programs of the college.
3. To acquire, organize, and circulate LRC materials or provide access through cooperative relationships/consortia with a variety of study options, including the use of the Internet service to ensure it is used for college-related research and educational activities.
4. To conduct periodic evaluations of patrons to assure the needs of the college community are being met.
5. To provide Academic Testing Center services for students of our college and other colleges through reciprocal arrangements and support day-to-day operations for the North Carolina Information Highway Interactive Television (NCIH/ITV) classrooms.

Learning Centers

Computer/Business Tutoring

Tutoring is provided for students enrolled in computer & business-related courses. A state of the art facility is located within the LRC at the North Campus to assist students with any computer coursework. Accounting tutoring is available at both North and South Campus. Referral forms from instructors are required to establish a student record of visits to the center. More information on this tutoring center can be found at: www.rowancabarrus.edu/labs/.

The EDGE Center

E - engage the student

D - develop a plan

G - goal setting

E - educational success

The EDGE Center is a comprehensive academic advisement, registration, and mentoring program helping students attain their educational and professional goals. Dedicated and specially trained professionals advise and monitor students throughout their RCCC educational experience. The EDGE Center provides these services to all students, particularly those in developmental, terminal degree, and college transfer programs.

Our advisors provide appropriate academic placement, registration, and career exploration information, identify suitable academic support services, and serve as an agent of referral to other campus and community agencies. The EDGE Center also provides vital information necessary for a successful transfer to a four-year institution or an uninterrupted transition into a terminal degree program. Instructor referrals and student walk-ins are welcome.

For location and hours of operation, please refer to the Tutoring Service web page at www.rowancabarrus.edu/tutoring/studev/.

Individualized Computer Learning Center

Students enrolled at Rowan-Cabarrus Community College are provided access to the Individualized Computer Learning Center (ICLC), a staffed facility where students can utilize computer resources to work on Traditional and Distance Education course assignments. An ICLC is located at North, South and CBTC campuses, and each facility provides multimedia computers, an automated student login and tracking system, and high-speed printers. In addition, the ICLCs offer free software workshops for students on topics including Blackboard and Microsoft Office. Workshops may be open to all students or arranged at the request of an instructor for a specific class. For more information about the locations, hours of operation, computers, software, and/or workshops, please visit the ICLC web page at www.rowancabarrus.edu/labs/.

Math Tutoring Center

The Math Tutoring Center (MTC) provides free, individualized tutoring for curriculum students enrolled in math and/or math-related courses. Chemistry, Physics, and Accounting tutoring is offered depending on tutor availability. Students are given an instructor referral form to present at the initial visit to the MTC. This form is attached to a log-in sheet which records student visits, and is kept on file for the semester. Student computers are available in the center and numerous math resource links can be found on the website. Students receive assistance on a first-come, first-serve basis. No appointment is necessary. A schedule of hours and tutors is available in the MTC, on flyers posted around campus, and on the RCCC website at www.rowancabarrus.edu/tutoring/math/.

Reading Center

Rowan-Cabarrus Community College is providing students with a Reading Center to primarily build strong skills in comprehension of various types of written material. Tutors guide students through different levels of exercises to master understanding of text from any course discipline. Individualized instruction is also provided in the areas of phonics, vocabulary building, word attack skills and reference skills. A goal of the center is to have students overcome reading-related deficiencies. All students visiting the center must be instructor-referred. Technology use is available in the Reading Center. Information regarding hours of operation and location can be found at: www.rowancabarrus.edu/tutoring/reading/.

Spanish Tutoring

Free Spanish tutoring for all levels is available to all RCCC students. No appointment is necessary. The tutoring staff consists of individuals from varying countries and cultures which enhances the individualized help received. Tutoring assistance is offered both day and evening hours throughout the week. Students must bring an instructor referral form to set up a record of visits kept on file in the center. A schedule of hours can be found on flyers posted around campus and at: www.rowancabarrus.edu/tutoring/spanish/.

Writing Center

The Writing Center (WC) is a free service provided to assist students with any course-related writing; including compositions, essays, proposals, research papers, reports, business correspondence, and resumes. The Centers also provide individualized instruction for problem areas in grammar, punctuation, organization, wording, rhetorical modes, and research. The Writing Center offers students skills in proofreading and learning how to avoid these errors in the future.

Students are referred to the WC by their instructors at the beginning of each semester. It is up to students at that point to initiate the tutoring process by calling or visiting the WC. The Writing Center offers 30-minute tutoring appointments. The WC also offers assistance to walk-in students who don't have an appointment, provided the WC tutor does not have a scheduled appointment. Yellow "Tutoring Session Verification" slips are given to students who will, in turn, give the forms to their instructor.

The Writing Center hours of operation and tutoring schedules may be accessed online at www.rowancabarrus.edu/tutoring/writing/ or by clicking "tutoring services" on RCCC's main webpage. For questions or comments, contact the Director, foxgs@rowancabarrus.edu, 704-216-3842 or Assistant Director, bayerc@rowancabarrus.edu or call one of the centers: North 704-216-3543, South 704-216-3525, CBTC 704-216-3491.



Cooperative Education

Cooperative Education

Cooperative Education (Co-op) is a unique academic plan in which students blend classroom learning with practical work experience. This is accomplished through supervised work assignments outside the formal classroom environment.

Co-op is based on the theory that education does not confine itself to just the classroom and should include the vital input that students may gain from participation in the world of work. The program is designed to make a student's educational program more relevant and meaningful by integrating classroom study with planned and supervised practical experience in business, industry, government, and professional or service organizations. It is called "Cooperative Education" because educators and outside agencies work together to design a superior total educational program for students.

There are two co-op enrollment plans available to students and employers:

1. **Alternating Plan** – The student alternates semesters of full-time work (40 hours per week) and full-time college enrollment.
2. **Parallel Plan** – The student works part-time (10-30 hours a week) and attends school.

Eligibility

To be eligible to participate in the Cooperative Education program, students must meet the following minimum requirements:

1. Have completed one semester (12 credit hours) of college work with at least three credit hours in a major field of study.
2. Have a minimum of 2.25 overall GPA and be in good academic standing. (Nursing and Early Childhood require a 2.5 overall GPA.)
3. Be recommended and approved for co-op participation by the Co-op faculty coordinator.
4. A transfer student must complete 12 semester hours at RCCC before applying for the Co-op program.
5. Demonstrate the ability to profit from the experience and meet the employer's requirements.
6. A student enrolled in the Co-op program must be registered for three hours of credit during the semester(s) he or she is participating. (*Exceptions are for Summer Term.*)
7. All students must be willing to co-op a minimum of 160 clock hours.
8. If released from a prior Co-op position, eligibility to reapply will be determined by the Co-op Director with special permission from the System Office.

A student who does not meet the eligibility criteria may be admitted to the program at the discretion of the Co-op Director and the Co-op Faculty Coordinator.

(Certain degree programs may specify additional requirements.)

The Cooperative Education program has an interrelated work experience and classroom content, carefully planned and supervised to produce quality educational results for each student involved. The institution assumes the responsibilities for finding assignments which are related to the student's professional objectives, thus providing experience that enhances knowledge acquired in the classroom.

Application Procedure

Interested students should obtain an application from the Office of Work-based Learning and Cooperative Education and make an appointment with the Co-op Director. Co-op applications must be approved by Co-op faculty coordinators.

Students who are currently employed may seek to have their present employment approved for Cooperative Education; however, such employment will be required to meet all Co-op criteria, and the student and employer must be willing to be governed by the Co-op policies and procedures. Cooperative Education credit will not be given for previous employment held prior to registration for the course.

Registration

Before attempting to register for a COE course (except COE 110), students should complete a Cooperative Education Approval Form, secure approval from the Co-op Director, and take the approval form to registration. Students who are approved and are placed in the Co-op program must register before going to their Co-op Work Assignment.

Academic Credit

Credit hours for Co-op work periods are determined by the number of hours worked per semester. For example, students working an average of 20 hours weekly (320 hours per semester) earn two hours of credit per semester. Grades given by the faculty coordinator will be based on the student's specific learning objectives, reports, and evaluations submitted by the student and the employer. The student's transcript indicates that practical work experience has been integrated into his/her academic program.

The Office of Work-based Learning and Cooperative Education also assists students in securing adult apprenticeships and internships. For more information on how to get involved in the Co-op program and other work-based learning opportunities, contact the Office of Work-based Learning and Cooperative Education, Building 300, Room 309 (North) or Building 2000, Room 2303 (South), 704-216-3649; or 704-216-3646; or E-mail: derrickc@rowancabarrus.edu.

NOTE: Co-op options are listed under each participating program as outlined in the RCCC Catalog/Student Handbook.

Distance Education

Rowan-Cabarrus Community College offers several methods of Distance Education, providing students a wide range of choices and new approaches to learning. RCCC is proud to provide students a way to participate in learning in addition to the traditional classroom. Our goal is to provide students greater flexibility in scheduling classes and provide RCCC's faculty new and innovative approaches to teaching.

RCCC offers several programs via Distance Education by delivering academic courses that meet program requirements through Telecourse and/or Internet offerings. For a list of degree, diploma, and certificate programs available via distance, please refer to the college's Distance Education website at www.rowancabarrus.edu/distance/.

For more information about Distance Education courses, and for a list of Telecourse and Internet course offerings, students may refer to the information within this section or the Distance Education website. During registration periods, students may also refer to the Semester Schedule of Courses for information about Distance Education course offerings.

Interactive Television (ITV)

RCCC has four electronic classrooms called Distance Learning Centers. They are located at our North Campus in Rowan County, our South Campus in Cabarrus County, and two are located at our Cabarrus Business and Technology Center (CBTC) in Cabarrus County. Each classroom has video and audio equipment that allows students in one location to see and talk with an instructor in another location. For example, an instructor could teach a class from our North Campus facility, but students could attend the class at our South Campus facility. Through our Distance Learning Centers, RCCC also can offer classes to and from other community colleges, universities, public schools, and other institutions.

Internet Courses

Internet students study textbooks and complete and submit assignments online, following the Internet course outline. Guidance and instructional support are provided through regular course participation and email contact with instructors.

Internet classes have no scheduled sessions on campus although instructors reserve the right to require test-taking in the on-campus testing centers. Internet courses are designed to give students maximum flexibility; however, students are expected to meet course, assignment, and testing deadlines, which provide a framework to promote student progress, and to maintain active participation in the course. RCCC provides general as well as course-specific guidelines for computer hardware and software required for accessing and participating in Internet courses.

Students must meet specific academic and skill requirements prior to registering for an Internet course, in addition to course prerequisites listed in the course descriptions section

of this catalog. Such criteria determine student preparedness and support student potential for success in an Internet course. Requirements include demonstrated reading, written communication, and technical skills.

As enrollment in Internet courses is limited, and specific testing or course prerequisites must be met to qualify for enrollment, students are encouraged to complete the registration process as early as possible. For more information about requirements for Internet courses, students may contact Student Services or refer to the college's Distance Education Handbook or the Distance Education website. During registration periods, students may also refer to the Semester Schedule of Courses for information and instructions.

Please note: Internet offerings may change during the academic year. Please refer to the Distance Education website, www.rowancabarrus.edu/distance/ for updates to course offerings.

COURSES CURRENTLY OFFERED VIA INTERNET

Title		Credit Hours
ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting	4
ACC 129	Individual Income Taxes	3
ACC 132	NC Business Taxes	2
ACC 140	Payroll Accounting	2
ACC 150	Accounting Software Applications	2
ANT 210	General Anthropology	3
AST 111	Descriptive Astronomy	3
AST 151	General Astronomy I	3
AST 151A	General Astronomy I Lab	1
AST 152	General Astronomy II	3
AST 152A	General Astronomy II Lab	1
BUS 110	Introduction to Business	3
BUS 115	Business Law I	3
BUS 121	Business Mathematics	3
BUS 137	Principles of Management	3
BUS 153	Human Resource Management	3
BUS 217	Employment Law & Regulations	3
BUS 225	Business Finance	3
BUS 230	Small Business Management	3
BUS 240	Business Ethics	3
BUS 260	Business Communication	3
CIS 110	Introduction to Computers	3
CJC 111	Introduction to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
CJC 141	Corrections	3
COM 110	Introduction to Communication	3
CTS 125	Presentation Graphics	3
CTS 130	Spreadsheet	3
CTS 230	Advanced Spreadsheet	3
CTS 285	Systems Analysis & Design	3
DEN 100	Basic Orofacial Anatomy	2

Title		Credit Hours
DEN 103	Dental Sciences	2
DEN 105	Practice Management	2
DEN 111	Infection/Hazard Control	2
ECO 151	Survey of Economics	3
ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
EDU 131	Children, Family, and Community	3
EDU 144	Child Development I	3
EDU 145	Child Development II	3
EDU 146	Child Guidance	3
EDU 153	Health, Safety, and Nutrition	3
EDU 221	Children with Exceptionalities	3
EDU 234	Infants, Toddlers and Twos	3
EDU 235	School-Age Development & Programs	2
EDU 259	Curriculum Planning	3
EDU 261	Early Childhood Admin. I	3
EDU 262	Early Childhood Admin. II	3
EDU 271	Educational Technology	3
ENG 111	Expository Writing	3
ENG 112	Argument-Based Research	3
ENG 113	Literature-Based Research	3
ENG 114	Professional Research & Reporting	3
ENG 126	Creative Writing II	3
ENG 131	Introduction to Literature	3
ENG 262	World Literature II	3
ENG 274	Literature by Women	3
HIS 122	Western Civilization II	3
HIS 131	American History I	3
HIS 132	American History II	3
HUM 110	Technology & Society	3
INT 110	International Business	3
ISC 112	Industrial Safety	2
ISC 121	Environmental Health & Safety	3
ISC 225	Facility Layout	4
MKT 120	Principles of Marketing	3
MKT 122	Visual Merchandising	3
MKT 123	Fundamentals of Selling	3
MKT 220	Advertising & Sales Promotion	3
MKT 221	Consumer Behavior	3
MKT 225	Marketing Research	3
MKT 226	Retail Applications	3
MSM 110	Intro. to Motorsports Mgmt.	3
MSM 112	Engine/Drivetrain Fundamentals	2
MSM 210	Motorsports Marketing	3
MSM 216	Organization Mobility	2
NET 110	Networking Concepts	3

Title		Credit Hours
NOS 110	Operating System Concepts	3
OST 136	Word Processing	2
OST 137	Office Software Applications	2
OST 149	Medical Legal Issues	3
OST 236	Adv. Word/Information Processing	3
OST 286	Professional Development	3
OST 289	Office Systems Management	3
PHY 110	Conceptual Physics	3
PSY 150	General Psychology	3
REL 110	World Religions	3
SEC 110	Security Concepts	3
SEC 150	Secure Communications	3
SEC 160	Secure Administration I	3
SOC 210	Introduction to Sociology	3
SOC 213	Sociology of the Family	3
SOC 240	Social Psychology	3
SOC 242	Sociology of Deviance	3
SPA 111*	Elementary Spanish I	3
SPA 112*	Elementary Spanish II	3
WEB 115	Web Markup and Scripting	3
WEB 140	Web Development Tools	3
WEB 210	Web Design	3
WEB 230	Implementing Web Services	3
WEB 250	Database Driven Websites	3
WEB 287	Web E-Portfolio	2
WEB 289	Internet Technologies Project	3

* May be offered via Internet

See semester schedule for semester to be offered.

Hybrid Courses

Hybrid courses combine online learning with face-to-face instruction. A large amount of the course content is delivered as an Internet course, but there are required on-campus meetings.

RCCC provides general as well as course-specific guidelines for computer hardware and software required for accessing and participating in the Internet portion of the courses. Students must meet specific academic and skill requirements prior to registering for a Hybrid course, in addition to course prerequisites listed in the Course Descriptions section of this catalog. Such criteria determine student preparedness and support student potential for success in a Hybrid course. Requirements include demonstrated reading, written communication, and technical skills.

As enrollment in Hybrid courses is limited, and specific testing or course prerequisites must be met to qualify for enrollment, students are encouraged to complete the registration process as early as possible. For more information about requirements for Hybrid courses, students may contact Student Services or refer to the college's Distance Education Handbook or the Distance Education website. During registration periods, students may also refer to the Semester Schedule of Courses for information and instructions.

HYBRID EDUCATION

Title		Credit Hours
ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting	4
ACC 129	Individual Income Taxes	3
ACC 132	NC Business Taxes	2
ACC 140	Payroll Accounting	2
ACC 150	Accounting Software Applications	2
ACC 220	Intermediate Accounting I	4
ACC 221	Intermediate Accounting II	4
ACC 225	Cost Accounting	3
ACC 250	Advanced Accounting	3
ACC 269	Auditing & Assurance Services	3
AST 111	Descriptive Astronomy	3
AST 151	General Astronomy I	3
AST 152	General Astronomy II	3
BIO 111	General Biology I	4
BIO 112	General Biology II	4
BUS 253	Leadership & Management Skills	3
BUS 260	Business Communication	3
CHM 151	General Chemistry I	4
CIS 110	Introduction to Computers	3
COM 110	Introduction to Communication	3
COM 231	Public Speaking	3
CTS 120	Hardware/Software Support	3
CTS 135	Integrated Software Introduction	4
CTS 220	Advanced Hardware/Software Support	3
CTS 230	Advanced Spreadsheet	3
CTS 289	System Support Project	3
DBA 110	Database Concepts	3
DBA 115	Database Applications	3
DEN 101	Preclinical Procedures	7
DEN 104	Dental Health Education	3
DEN 106	Clinical Practice I	5
DEN 107	Clinical Practice II	5
DEN 112	Dental Radiography	3
ECO 151	Survey of Economics	3
ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3

Title		Credit Hours
EDU 226PS	Early Childhood Seminar II (Preschool)	2
EDU 226SA	Early Childhood Seminar II (School-Age)	2
EDU 280	Language & Literacy Experiences	3
ENG 111	Expository Writing	3
ENG 125	Creative Writing I	3
ENG 131	Introduction to Literature	3
ENG 232	American Literature II	3
MKT 221	Consumer Behavior	3
MKT 226	Retail Application	3
NET 110	Networking Concepts	3
NET 175	Wireless Technology	3
NET 289	Networking Project	3
NOS 110	Operating System Concepts	3
NOS 120	Linux/UNIX Single User	3
NOS 130	Windows Single User	3
NOS 220	Linux/UNIX Administration I	3
NOS 230	Windows Administration I	3
NUR 110	Nursing I	8
NUR 120	Nursing II	8
NUR 130	Nursing III	7
NUR 189	Nursing Transition	2
NUR 210	Nursing IV	10
NUR 220	Nursing V	10
SEC 110	Security Concepts	3
SEC 150	Secure Communications	3
SEC 210	Intrusion Detection	3
SEC 220	Defense In-Depth	3
SEC 289	Security Capstone Project	3
SPA 111*	Elementary Spanish I	3
SPA 112*	Elementary Spanish II	3
WEB 110	Internet/Web Fundamentals	3
WEB 111	Introduction to Web Graphics	3
WEB 115	Web Markup and Scripting	3
WEB 119	Web Tech. Program Orientation	2
WEB 120	Introduction to Internet Multimedia	3
WEB 211	Advanced Web Graphics	3
WEB 230	Implementing Web Services	3
WEB 250	Database Driven Websites	3
WEB 287	Web E-Portfolio	2
WEB 289	Internet Technologies Project	3

* May be offered via Hybrid

See semester schedule for semester to be offered.

Telecourses

A telecourse is a complete and integrated instructional system that generally includes video programs on DVD/CD, a textbook, and a variety of other instructional materials to be used by the student as the principle component of a college course. Students can take college credit courses by watching these video programs at home, completing assigned reading and study materials with guidance from the instructor, taking appropriate tests, and attending the required on-campus sessions. The courses and the credit hours are equivalent to those offered in traditional on-campus classes. A telecourse is equivalent to a traditionally taught college course in academic rigor and student requirements.

Please note: Telecourse offerings may change during the academic year. Please refer to the Distance Education website, www.rowancabarrus.edu/distance/ for updates to course offerings.

COURSES CURRENTLY OFFERED VIA TELECOURSE

Telecourse Title	RCCC Title	Credit Hours
It's Strictly Business: Introduction to the World of Business	BUS 110 Introduction to Business	3
Business and the Law	BUS 115 Business Law I	3
By the Numbers: Practical Applications of Business Mathematics	BUS 121 Business Mathematics	3
Taking the Lead: The Management Revolution	BUS 137 Principles of Management	3
Something Ventured: An Entrepreneurial Approach to Small Business Mgmt.	BUS 230 Small Business Management	3
Intro. to Business Communication: Tools for Leadership	BUS 260 Business Communication	3
Human Communications	COM 110 Introduction to Communication	3
A Writer's Exchange	ENG 111 Expository Writing	3
Advanced English Composition	ENG 112 Argument-Based Research	3
American Passages	ENG 131 Introduction to Literature	3
Living Literature	ENG 251 Western World Literature I	3
The Western Tradition I	HIS 121 Western Civilization I	3
The Western Tradition II	HIS 122 Western Civilization II	3
Unfinished Nation I	HIS 131 American History I	3
Unfinished Nation II	HIS 132 American History II	3
Concepts in Marketing	MKT 120 Principles of Marketing	3
The Sales Connection: Principles of Selling	MKT 123 Fundamentals of Selling	3
The Examined Life	PHI 210 History of Philosophy	3
Voices in Democracy	POL 120 American Government	3
Psychology: The Human Experience	PSY 150 General Psychology	3
Lifespan Telecourse	PSY 241 Developmental Psychology	3
The Way We Live	SOC 210 Introduction to Sociology	3
Our Families, Ourselves	SOC 213 Sociology of the Family	3

See semester schedule for semester to be offered.

TeleWeb

These courses combine online learning with Telecourse instruction. In addition to content delivered via video programs on DVD/CD, TeleWeb courses include content delivered via the Internet. All TeleWeb courses are supplemented by required Saturday sessions.

RCCC provides general as well as course-specific guidelines for computer hardware and software required for accessing and participating in the Internet portion of the courses. Students must meet specific academic and skill requirements prior to registering for a TeleWeb course, in addition to course prerequisites listed in the Course Descriptions section of this catalog. Such criteria determine student preparedness and support student potential for success in a TeleWeb course. Requirements include demonstrated reading, written communication, and technical skills.

As enrollment in TeleWeb courses is limited, and specific testing or course prerequisites must be met to qualify for enrollment, students are encouraged to complete the registration process as early as possible. For more information about requirements for TeleWeb courses, students may contact Student Services or refer to the college's Distance Education Handbook or the Distance Education website. During registration periods, students may also refer to the Semester Schedule of Courses for information and instructions.

Developmental Courses

Developmental courses are the center piece of the open-door policy at RCCC. Developmental courses offer prospective students who are not fully prepared for college level courses an opportunity to improve their reading, writing, math, chemistry, and computer skills before they begin a curriculum program of study. Students may be required to take one or more developmental courses because their placement scores are not at the level of proficiency required for success in a given curriculum, or they may elect developmental courses if they feel themselves in need of a refresher course.

RCCC offers four math courses covering content ranging from basic mathematics to intermediate algebra, three English courses that help students develop grammar and writing skills beginning at the sentence level and continuing through the development of essays, two reading courses that assist students in the development and application of college level reading strategies, a basic chemistry course, and a basic computer course.

ACA 090 Study Skills has been added to the program as a required course for any student whose placement test scores indicate a need for two or more developmental studies courses.

ACA 115, (Success and Study Skills) is not a developmental studies course, but it is designed to prepare students for college level work and is required for most programs with the exception of Biotechnology, Cosmetology, Associate Degree Nursing, and Radiography. ACA 115 may transfer to four-year schools but is not designed as a college transfer course.

The courses listed below are designed to prepare students for college level work and will not satisfy credit hours for any degree, diploma or certificate program. These courses will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, they will not satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for these courses will only satisfy the prerequisites for entry into a curriculum level course.

	Title	Class	Lab	Clinical	W Exp.	Credits
ACA 090	Study Skills	3	0	0	0	3
CHM 090	Chemistry Concepts	4	0	0	0	4
CTS 080	Computing Fundamentals	2	3	0	0	3
ENG 080	Writing Foundations	3	2	0	0	4
ENG 085	Reading & Writing Foundations	5	0	0	0	5
ENG 090	Composition Strategies	3	0	0	0	3
MAT 050	Basic Math Skills	3	2	0	0	4
MAT 060	Essential Mathematics	3	2	0	0	4
MAT 070	Introductory Algebra	3	2	0	0	4
MAT 080	Intermediate Algebra	3	2	0	0	4
RED 080	Introduction to College Reading	3	2	0	0	4
RED 090	Improved College Reading	3	2	0	0	4

For additional information regarding the above courses, please contact the following individuals:

CHM course: Program Head Jack Howard, 704-216-3824, howardj@rowancabarrus.edu

CTS course: Program Head Anne Curlee, 704-216-3758, curleea@rowancabarrus.edu

ENG courses: Program Head Shelley Palmer, 704-216-3845, palmers@rowancabarrus.edu

MAT courses: Program Head Kathy Ketchie, 704-216-3884, ketchiek@rowancabarrus.edu

RED courses: Faculty Members Amelia Likin, 704-216-3548, likina@rowancabarrus.edu

or Claudia Swicegood, 704-216-3551, swicegoodc@rowancabarrus.edu

ACA courses: Lead Instructor Donna Ginn, 704-216-3843, ginnd@rowancabarrus.edu



Programs of Study

Please see page 479 for 2009-2010 programs of study.

RCCC offers various occupational programs leading to an Associate in Applied Science degree. Diplomas and certificates of completion are awarded for other occupational programs. An Arts and Sciences program also is offered, leading to the Associate in Arts or Associate in Science degree.

General Education goals provide the foundation to learning in all degree programs at Rowan-Cabarrus Community College. These goals seek to provide a high quality educational experience for all degree students and will ensure that our graduates have the necessary fundamental knowledge, skills, and abilities to function effectively in their personal and professional lives.

General Education Goals

General Education at Rowan-Cabarrus Community College seeks to create the desire and provide the opportunity for students to live more informed and more reflective lives. To these ends, the General Education component of the curriculum at RCCC should enable students to:

- Learn Actively;
- Think Critically;
- Communicate Effectively;
- Participate Responsibly.

The following goals identify the essence of a general education and allow students to develop at a level appropriate to their degree. Although some of these competencies may be achieved primarily through successful completion of particular courses, students should have the opportunity to develop the use of many of these skills throughout their program.

Goal I: Communications

Students who successfully complete a degree program at RCCC should be able to:

- communicate clearly and coherently, in writing and orally, using standard English;
- read with understanding and listen perceptively at a level appropriate to their degree or occupational goals;
- use appropriate skills and technology to locate, evaluate and utilize information effectively; and
- learn appropriate interpersonal and group communication skills.

Goal II: Mathematics, Science, and Technology

Students who successfully complete a degree program at RCCC should possess the analytical abilities necessary to:

- apply mathematical concepts and skills to interpret, understand, and communicate quantitative data;
- understand the basic principles of the scientific method;
- identify the impact of technology on the individual and the global environment; and
- apply technological skills.

Goal III: Problem Solving and Critical Thinking Skills

Students who successfully complete a degree program at RCCC should be able to:

- develop critical thinking skills that will allow them to analyze a variety of problems; and
- select or create possible solutions, assess the impact of the solutions, and make informed judgements.

Goal IV: Society and Culture

Students who successfully complete a degree program at RCCC should be able to:

- develop an awareness of the humanities to broaden their understanding of cultures in the diverse world;
- identify and enhance creativity;
- increase awareness of their own values, beliefs, and behaviors as well as those of others; and
- demonstrate an awareness of the importance of civic responsibility.

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** Program code*
Use This Key to identify information found in the *Programs of Study* section:

<i>Type of Degree Offered</i>		Accounting					<i>Program of Study</i>	
		Associate In Applied Science Degree						
		(A25100)					<i>Program Code Number</i>	
Title		Class	Lab	Clinical	W Exp.	Credits		
ACC 120	Principles of Financial Accounting	3	2	0	0	4		
<i>Course Title</i>								
<i>Course Prefix and Number</i>								
		<i>Hours of Classroom Lecture Each Week</i>		<i>Hours of Clinical Each Week</i>		<i>Hours of Credit</i>		
		<i>Hours of Lab Each Week</i>		<i>Hours of Work Experience Each Week</i>				

Associate in Applied Science Degree Programs (A.A.S.)

These programs generally require two years of full-time study. Upon completion, an Associate in Applied Science degree is awarded. These programs are transferable to a number of four-year colleges and universities.

Diploma Programs (Dipl.)

These programs generally require 12 months of full-time study. Upon completion, a diploma in the area of specialization is awarded.

Certificate Programs (Cert.)

These programs vary in length, requiring from four to twelve months of full-time study. Upon completion, a certificate in the area of specialization is awarded.

Arts and Sciences Programs (A.A., A.S., and Dipl.)

The Arts and Sciences degree programs are designed for students who intend to transfer to a four-year college or university. By enrolling in these programs, students may complete course work equivalent to the first two-years of study required for a bachelor's degree. As students work toward the A.A. or A.S. degree, they may earn an Associate in Arts or Associate in Science diploma signifying their successful completion of the general education core set of courses. They also may concentrate their studies in one or more of the 13 A.A. pre-major programs of study.

Arts and Sciences Program

The Arts and Sciences programs emphasize liberal arts and are intended for students who wish to transfer to a four-year college or university. These diploma and degree programs offer courses comparable to the freshman and sophomore levels at four-year colleges and universities. Academic advisors are available to assist students in selecting courses that best meet students' interests and the requirements of transfer institutions. Because course requirements vary among four-year institutions, students should obtain current catalogs from the schools they plan to attend. Generally, a course grade of "C" or better is required for transfer and students should maintain at least a 2.0 grade point average while enrolled at RCCC.

A comprehensive articulation agreement between the North Carolina Community College System and the North Carolina University System facilitates the transfer process for students wishing to attend a four-year institution within the N.C. University System. Because of this agreement, students who complete the general education core at RCCC will have satisfied the universities' general education requirements and become eligible to enroll with junior level status upon completion of the Associate in Arts or Associate in Science degree. Courses included in the articulation agreement are designated in the RCCC catalog Course Descriptions.

A similar articulation agreement between RCCC and Catawba College facilitates the transfer process for students wishing to complete their four-year degrees at Catawba. Because of this agreement, RCCC students can satisfy all but one course needed to complete general education requirements for Catawba College. Some RCCC upper level junior/senior credits also may transfer. Courses included in the articulation agreement are designated in the RCCC catalog Course Descriptions.

For additional information regarding these programs, contact Dean Meg Patchett at 704-216-3800 or send an email to patchettm@rowancabarrus.edu.

Requirements for the Associate in Science Diploma (D10400)

Students who successfully complete the 44 SHC general education core may be awarded the Associate in Science diploma. The general education core includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. By completing the general education core and earning the diploma, students will find it easier to transfer coursework to the four-year institutions. Students who do not complete the general education core may find their transcripts analyzed on a course-by-course basis by the transfer institutions.

General Education Core (44 SHC)

- 6 SHC English Composition

- 9 SHC Humanities/Fine Arts (At least one course must be a literature course.)

- 9 SHC Social/Behavioral Sciences (At least one course must be a history course.)

- 8 SHC Natural Sciences

- 6 SHC Mathematics

- 6 SHC Natural Sciences/Mathematics general education transfer courses

Students wishing to pursue the Associate in Science *Degree* at RCCC also will need to complete ACA 115, *Success and Study Skills*, during their first semester of enrollment.

Requirements for the Associate in Science Degree (A10400)

The Associate in Science degree is awarded for study in science and mathematics, and is recommended for students planning to pursue programs of study in Agriculture, Dentistry, Engineering, Forestry, Furniture, Mathematics, Medicine, Science, Textiles, or other areas leading to a Bachelor of Science degree. In addition to the 44 SHC general education core, students must complete 1 SHC in Success and Study Skills (ACA 115), 14 SHC in Natural Science, Mathematics, or Computer Science college transfer electives, and 6 SHC in general education, pre-major, or elective courses.

Sample Associate in Science Plan (2-year plan)

First Year Fall Semester SHC

ACA 115	Success and Study Skills	1
ENG 111	Expository Writing	3
MAT 161	College Algebra (<i>Science Elective</i>)	3
PSY 150	General Psychology	3
CHM 151	General Chemistry I (<i>Required Sequence</i>)	4

SHC Total: 14

First Year Spring Semester

CIS 115	Introduction to Programming & Logic (<i>Required Math</i>)	3
ENG 112	Argument-Based Research	3
HIS 131	American History I	3
PHI 240	Introduction to Ethics	3
CHM 152	General Chemistry II (<i>Required Sequence</i>)	4

SHC Total: 16

First Year Summer Semester

HUM 110	Technology and Society	3
CSC 151	JAVA Programming (<i>Science Elective</i>)	3

SHC Total: 6

Second Year Fall Semester

SOC 213	Sociology of the Family	3
AST 151	General Astronomy I	3
AST 151A	General Astronomy I Lab	1
ENG 232	American Literature II	3
MAT 175	Precalculus (<i>Required Math</i>)	4

SHC Total: 14

Second Year Spring Semester

AST 152	General Astronomy II (<i>Additional Science Core</i>)	3
AST 152A	General Astronomy II Lab (<i>Can count as Gen. Elective</i>)	1
MAT 271	Calculus I (<i>Science Elective</i>)	4
BIO 111	General Biology I (<i>Science Elective</i>)	4
	General Elective	3

SHC Total: 15

TOTAL SHC IN PROGRAM: 65

Associate in Science

(A10400)

The Associate in Science degree shall be granted for planned programs of study consisting of a minimum of 64 and a maximum of 65 semester hours of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers. (Ref. 23 NCAC 2E.0204).

Courses are approved for transfer through the Comprehensive Articulation Agreement. Community college graduates who have earned 64 semester hours of academic credit in approved transfer courses with a grade of “C” or better in each course and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 64 semester hours of academic credit upon admission to a university. Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving institutions.

For additional information regarding this program, contact Dean Meg Patchett at 704-216-3800, or send an email to patchettm@rowancabarrus.edu.

Title		Class	Lab	Clinical	W Exp.	Credits
<i>A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing the Associate in Science degree. This course may not transfer to a senior institution.</i>						
ACA 115	Success and Study Skills	0	2	0	0	1

I. General Education Core (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
<i>Select one course from the following:</i>						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts: (9 SHC) *Select three courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. One course must be a literature course.*

Literature (3 SHC) *Select one course from the following (Speech/Communication may not substitute for the literature requirement):*

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Title	Class	Lab	Clinical	W Exp.	Credits
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Select two courses (6 SHC) from at least two of the following discipline areas:

Art

ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3

Foreign Languages

FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3

Humanities

HUM 110	Technology and Society	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
HUM 122	Southern Culture	3	0	0	0	3
HUM 130	Myth in Human Culture	3	0	0	0	3
HUM 160	Introduction to Film	2	2	0	0	3
HUM 161	Advanced Film Studies	2	2	0	0	3
HUM 211	Humanities I	3	0	0	0	3
HUM 212	Humanities II	3	0	0	0	3

Music

MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
MUS 213	Opera and Musical Theatre	3	0	0	0	3

Philosophy

PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3

Religion

REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3

Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)

COM 110	Introduction to Communication	3	0	0	0	3
COM 120	Intro. to Interpersonal Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3

Social/Behavioral Sciences (9 SHC) *Select three (3) courses from at least three (3) of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. One course must be a history course.*

Title		Class	Lab	Clinical	W Exp.	Credits
History (Select one course (3 SHC) from the following):						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
<i>Students must select two courses (6 SHC) from at least two of the following discipline areas:</i>						
Anthropology						
ANT 210	General Anthropology	3	0	0	0	3
Economics						
ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
Geography						
GEO 111	World Regional Geography	3	0	0	0	3
GEO 112	Cultural Geography	3	0	0	0	3
Political Science						
POL 110	Introduction to Political Science	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3
Psychology						
PSY 150	General Psychology	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 239	Psychology of Personality	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
Sociology						
SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (20 SHC)						
Natural Sciences (8 SHC minimum) <i>A minimum two-course sequence (including accompanying laboratory work) from the following general biology, general chemistry, or general physics courses is required:</i>						
[BIO 111	General Biology I	3	3	0	0	4
[BIO 112	General Biology II	3	3	0	0	4
[CHM 151	General Chemistry I	3	3	0	0	4
[CHM 152	General Chemistry II	3	3	0	0	4
[PHY 151	College Physics I	3	2	0	0	4
[PHY 152	College Physics II	3	2	0	0	4
[PHY 251	General Physics I	3	3	0	0	4
[PHY 252	General Physics II	3	3	0	0	4

Title	Class	Lab	Clinical	W Exp.	Credits
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Mathematics (6 SHC) *One course in mathematics at the precalculus algebra level or above is required. The other course(s) may be higher level mathematics or may be selected from among other quantitative subjects, such as computer science and statistics.*

Precalculus algebra level or above (Select one):

MAT 175	Precalculus	4	0	0	0	4
MAT 263	Brief Calculus	3	0	0	0	3

Select one course from the following:

CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Intro. to Programming & Logic	2	3	0	0	3
MAT 151	Statistics I	3	0	0	0	3
MAT 263	Brief Calculus	3	0	0	0	3

**Additional General Education Core Hours in Natural Sciences/
Mathematics (Select 6 SHC from the following):**

AST 151	General Astronomy I	3	0	0	0	3
AST 151A	General Astronomy I Lab	0	2	0	0	1
AST 152	General Astronomy II	3	0	0	0	3
AST 152A	General Astronomy II Lab	0	2	0	0	1
BIO 111	General Biology I	3	3	0	0	4
BIO 112	General Biology II	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
CHM 131	Introduction to Chemistry	3	0	0	0	3
CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
CHM 132	Organic and Biochemistry	3	3	0	0	4
CHM 151	General Chemistry I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
MAT 151	Statistics I	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4
MAT 263	Brief Calculus	3	0	0	0	3
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MAT 273	Calculus III	3	2	0	0	4

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC)

Natural Science, Mathematics, Computer Science Electives (14 SHC)

A minimum of 14 SHC of college transfer courses in mathematics, natural sciences or computer science is required. Select 14 SHC from the following courses or from the Natural Sciences/Mathematics courses listed above.

AST 251	Observational Astronomy	1	3	0	0	2
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
CSC 134	C++ Programming	2	3	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MAT 161	College Algebra	3	0	0	0	3

General Education (6 SHC)

It is recommended that these electives be chosen from the Natural Science/Mathematics core courses or Natural Science, Mathematics, and Computer Science elective courses listed above. Electives also may be chosen from the following list of general education, pre-major, or elective courses.

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CHM263	Analytical Chemistry	3	4	0	0	5
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
COM130	Nonverbal Communication	3	0	0	0	3
COM140	Intercultural Communication	3	0	0	0	3
COM150	Introduction to Mass Communication	3	0	0	0	3
COM160	Small Group Communication	3	0	0	0	3
COM232	Election Rhetoric	3	0	0	0	3
COM233	Persuasive Speaking	3	0	0	0	3
COM251	Debate I	3	0	0	0	3
COM252	Debate II	3	0	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ECO 151	Survey of Economics	3	0	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
ENG 274	Literature by Women	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 227	Native American History	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 120	Walking for Fitness	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
POL 130	State & Local Government	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Requirements for the Associate in Arts Diploma (D10100)

Students who successfully complete the 44 SHC general education core may be awarded the Associate in Arts Diploma. The general education core includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. By completing the general education core and earning the diploma, students will find it easier to transfer coursework to the four-year institutions. Students who do not complete the general education core may find their transcripts analyzed on a course-by-course basis by the transfer institutions.

General Education Core (44 SHC)

6 SHC English Composition

12 SHC Humanities/Fine Arts (At least one course must be a literature course.)

12 SHC Social/Behavioral Sciences (At least one course must be a history course.)

8 SHC Natural Sciences

6 SHC Mathematics

Students wishing to pursue the Associate in Arts *Degree* at RCCC also will need to complete ACA 115, *Success and Study Skills*, during their first semester of enrollment.

Requirements for the Associate in Arts Degree (A10100)

The Associate in Arts degree is awarded for liberal arts study and the curriculum is designed to transfer to bachelor's degree programs at four-year colleges and universities. In addition to the 44 SHC general education core, students must complete 1 SHC in Success and Study Skills (ACA 115) and 20 SHC of college transfer general education, elective, and/or pre-major courses. Transfer of ACA 115 is not guaranteed. Pre-major programs of study include:

- | | |
|--------------------------------------------------------------------------------|-----------------------------------------|
| • Business Administration,
Accounting, Economics, Finance,
and Marketing | • Nursing |
| • Business Education and Marketing
Education | • Political Science |
| • Criminal Justice | • Psychology |
| • Elementary Education | • Social Science Secondary
Education |
| • History | • Social Work |
| • Middle Grades Education | • Sociology |
| | • Special Education |

Recommended courses for RCCC pre-majors begin on page 98. The recommended course sequence for students working toward an undeclared pre-major Associate in Arts degree is as follows:

Sample Associate in Arts Plan (2-year plan)

First Year Fall Semester

		SHC
ACA 115	Success and Study Skills	1
ENG 111	Expository Writing	3
MAT 161	College Algebra	3
HIS 111	World Civilizations I	3
ANT 210	General Anthropology	3
GER 111	Elementary German I	3
SHC Total:		16

First Year Spring Semester

ENG 112	Argument-Based Research	3
MAT 151	Statistics I	3
MAT 151A	Statistics I Lab	1
GER 112	Elementary German II	3
PSY 150	General Psychology	3
	General Elective	3
SHC Total:		16

Second Year Fall Semester

COM231	Public Speaking	3
BIO 111	General Biology I and Lab	4
ENG 262	World Literature II	3
POL 210	Comparative Government	3
	General Elective	3
SHC Total:		16

Second Year Spring Semester

BIO 112	General Biology II and Lab	4
PED 110	Fit and Well for Life	2
	Electives	11
SHC Total:		17

TOTAL SHC IN PROGRAM: 65

Sample Associate in Arts Plan (2.5-year plan with developmental courses)

First Year Fall Semester

	SHC
ACA 090 Study Skills*	3
RED 090 Improved College Reading*	4
ENG 090 Composition Strategies*	4
MAT 070 Introductory Algebra*	4
SHC Total:	15

First Year Spring Semester

ACA 115 Success and Study Skills	1
ENG 111 Expository Writing	3
MAT 080 Intermediate Algebra*	4
HIS 122 Western Civilization II	3
PED 122 Yoga I	1
SPA 111 Elementary Spanish I	3
SHC Total:	15

First Year Summer Semester

CIS 110 Introduction to Computers	3
ENG 112 Argument-Based Research	3
SOC 210 Introduction to Sociology	3
SHC Total:	9

Second Year Fall Semester

MAT 161 College Algebra	3
COM 110 Introduction to Communications	3
SPA 112 Elementary Spanish II	3
CHM 131 Introduction to Chemistry	3
CHM 131A Introduction to Chemistry Lab	1
ECO 251 Principles of Microeconomics	3
SHC Total:	16

Second Year Spring Semester

ENG 231 American Literature I	3
GEO 111 World Regional Geography	3
REL 110 World Religions	3
CHM 132 Organic and Biochemistry	4
MAT 151 Statistics I	3
MAT 151A Statistics I Lab	1
SHC Total:	17

Second Year Summer Semester

Electives	12
SHC Total:	12

TOTAL SHC IN PROGRAM: 65

*Developmental Studies Course – This course will not transfer to a four-year institution. The 65 SHC do not include the developmental studies courses.

Associate in Arts

(A10100)

Title	Class	Lab	Clinical	W Exp.	Credits
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A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Associate in Arts degree. This course may not transfer to a senior institution.

ACA 115	Success and Study Skills	0	2	0	0	1
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I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
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Select one course from the following:

ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts: (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following discipline areas:

Art

ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3

Foreign Languages

FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3

Humanities

HUM 110	Technology and Society	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
HUM 122	Southern Culture	3	0	0	0	3
HUM 130	Myth in Human Culture	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
HUM 160	Introduction to Film	2	2	0	0	3
HUM 161	Advanced Film Studies	2	2	0	0	3
HUM 211	Humanities I	3	0	0	0	3
HUM 212	Humanities II	3	0	0	0	3
Music						
MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
<i>Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)</i>						
COM 110	Introduction to Communication	3	0	0	0	3
COM 120	Intro. to Interpersonal Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3

Social/Behavioral Sciences (12 SHC) *Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. At least one course must be a history course.*

History (Select one course from the following):

HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3

Students must select three courses (9 SHC) from at least two of the following discipline areas:

Anthropology

ANT 210	General Anthropology	3	0	0	0	3
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Economics

ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3

Geography

GEO 111	World Regional Geography	3	0	0	0	3
GEO 112	Cultural Geography	3	0	0	0	3
GEO 113	Economic Geography	3	0	0	0	3
GEO 130	General Physical Geography	3	0	0	0	3

Political Science

POL 110	Introduction to Political Science	3	0	0	0	3
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	Title	Class	Lab	Clinical	W Exp.	Credits
POL 120	American Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3
Psychology						
PSY 150	General Psychology	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 239	Psychology of Personality	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
Sociology						
SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3

Natural Sciences/Mathematics (14 SHC)

Natural Sciences (8 SHC) *Select two courses (including accompanying laboratory work) (AST,BIO, CHM, or PHY) from the following biological and physical science disciplines:*

[	AST 151	General Astronomy I	3	0	0	0	3
	AST 151A	General Astronomy I Lab	0	2	0	0	1
	AST 152	General Astronomy II	3	0	0	0	3
	AST 152A	General Astronomy II Lab	0	2	0	0	1
[	BIO 111	General Biology I	3	3	0	0	4
	BIO 112	General Biology II	3	3	0	0	4
[	CHM 131	Introduction to Chemistry	3	0	0	0	3
	CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
	CHM 132	Organic and Biochemistry	3	3	0	0	4
[	CHM 151	General Chemistry I	3	3	0	0	4
	CHM 152	General Chemistry II	3	3	0	0	4
[	PHY 151	College Physics I	3	2	0	0	4
	PHY 152	College Physics II	3	2	0	0	4
[	PHY 251	General Physics I	3	3	0	0	4
	PHY 252	General Physics II	3	3	0	0	4

Mathematics (6 SHC) *Select at least one course in introductory mathematics. The other course may be selected from among other quantitative subjects, such as computer science and statistics.*

Introductory Mathematics (Select one):

MAT 140	Survey of Mathematics	3	0	0	0	3
MAT 151	Statistics I	3	0	0	0	3
MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4

Select one course from the following:

CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Intro. to Programming & Logic	2	2	0	0	3
MAT 151	Statistics I	3	0	0	0	3
MAT 263	Brief Calculus	3	0	0	0	3

Students should check with the university of their choice to make sure that they complete the appropriate math course.

Title	Class	Lab	Clinical	W Exp.	Credits
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A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
AST 111	Descriptive Astronomy	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
AST 251	Observational Astronomy	1	3	0	0	2
BIO 110	Principles of Biology	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CHM263	Analytical Chemistry	3	4	0	0	5
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
COM130	Nonverbal Communication	3	0	0	0	3
COM140	Intro. to Intercultural Communication	3	0	0	0	3
COM150	Introduction to Mass Communication	3	0	0	0	3
COM160	Small Group Communication	3	0	0	0	3
COM232	Election Rhetoric	3	0	0	0	3
COM233	Persuasive Speaking	3	0	0	0	3
COM251	Debate I	3	0	0	0	3
COM252	Debate II	3	0	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ECO 151	Survey of Economics	3	0	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 235	Survey of Film as Literature	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MAT 273	Calculus III	3	2	0	0	4
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
PHY 110	Conceptual Physics	3	0	0	0	3
PHY 110A	Conceptual Physics Lab	0	2	0	0	1
POL 130	State & Local Government	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Definition Of Pre-Major Programs

The Department of Arts & Sciences, in conjunction with Business Technologies, Health and Public Services Technologies and the University of North Carolina System, offers several pre-major program curriculum areas that will assist students who desire to transfer to one of the public universities in North Carolina.

Pre-Major Associate in Arts

Business Administration, Accounting, Economics, Finance, and Marketing

(A1010B)

This program is designed for students who intend to pursue a Bachelor of Arts or Bachelor of Science degree in Business Administration, Accounting, Economics, Finance, or Marketing. Students who complete this program will meet freshmen and sophomore requirements for all public universities in North Carolina which offer degrees in Business Administration. Individual institutions may have additional requirements for admission into their major departments, and graduates should expect to have a GPA of 2.5 or higher to meet admission requirements. Students should consult catalogs from the schools they plan to attend to determine additional requirements, if any.

This program is not designed to provide entry-level skills for entry into a business occupation. Students interested in obtaining an entry-level job in a business occupation upon graduation should pursue one of the A.A.S. degree programs within the Business Technologies area.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Business Administration, Accounting, Economics, Finance, and Marketing.

Title		Class	Lab	Clinical	W Exp.	Credits
<i>A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.</i>						
ACA 115	Success and Study Skills	0	2	0	0	1

I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
<i>Select one course from the following:</i>						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
Humanities/Fine Arts (12 SHC) <i>Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. <u>At least one course must be a literature course.</u></i>						
Literature (3 SHC) <i>Select one course from the following (Speech/Communication may not substitute for the literature requirement):</i>						
ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:						
Art						
ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3
Foreign Languages						
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
Humanities						
HUM 110	Technology and Society	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
HUM 122	Southern Culture	3	0	0	0	3
HUM 130	Myth in Human Culture	3	0	0	0	3
HUM 160	Introduction to Film	2	2	0	0	3
HUM 161	Advanced Film Studies	2	2	0	0	3
HUM 211	Humanities I	3	0	0	0	3
HUM 212	Humanities II	3	0	0	0	3
Music						
MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
<i>Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)</i>						
COM110	Introduction to Communication	3	0	0	0	3
COM120	Intro. to Interpersonal Communication	3	0	0	0	3
COM231	Public Speaking	3	0	0	0	3

Social/Behavioral Sciences (12 SHC) *Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. At least one course must be a history course.*

History (Select one course from the following):

HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3

Economics (The following course is required):

ECO 251	Principles of Microeconomics	3	0	0	0	3
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Students must select two courses (6 SHC) from the following discipline areas. (POL 120, PSY 150, and SOC 210 are recommended):

Anthropology

ANT 210	General Anthropology	3	0	0	0	3
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Geography

GEO 111	World Regional Geography	3	0	0	0	3
GEO 112	Cultural Geography	3	0	0	0	3
GEO 113	Economic Geography	3	0	0	0	3
GEO 130	General Physical Geography	3	0	0	0	3

Political Science

POL 110	Introduction to Political Science	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3

Psychology

PSY 150	General Psychology	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 239	Psychology of Personality	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3

Sociology

SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3

Title	Class	Lab	Clinical	W Exp.	Credits
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Natural Sciences/Mathematics (14 SHC)

Natural Sciences (8 SHC) *Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:*

[	AST 151	General Astronomy I	3	0	0	0	3
	AST 151A	General Astronomy I Lab	0	2	0	0	1
	AST 152	General Astronomy II	3	0	0	0	3
	AST 152A	General Astronomy II Lab	0	2	0	0	1
[	BIO 111	General Biology I	3	3	0	0	4
	BIO 112	General Biology II	3	3	0	0	4
[	CHM131	Introduction to Chemistry	3	0	0	0	3
	CHM131A	Introduction to Chemistry Lab	0	3	0	0	1
	CHM132	Organic and Biochemistry	3	3	0	0	4
[	CHM151	General Chemistry I	3	3	0	0	4
	CHM152	General Chemistry II	3	3	0	0	4
[	PHY 151	College Physics I	3	2	0	0	4
	PHY 152	College Physics II	3	2	0	0	4

Mathematics (6-7 SHC) *Select at least one course in introductory mathematics.*

Introductory Mathematics (Select one):

MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4

One of the following courses is required:

MAT 263	Brief Calculus	3	0	0	0	3
MAT 271	Calculus I	3	2	0	0	4

Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

The following courses are required:

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
CIS 110	Introduction to Computers	2	2	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
MAT 151	Statistics I	3	0	0	0	3

Select 3 SHC hours from the following courses:

ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
AST 111	Descriptive Astronomy	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
AST 251	Observational Astronomy	1	3	0	0	2
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CHM263	Analytical Chemistry	3	4	0	0	5
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
COM130	Nonverbal Communication	3	0	0	0	3
COM140	Intercultural Communication	3	0	0	0	3
COM150	Introduction to Mass Communication	3	0	0	0	3
COM160	Small Group Communication	3	0	0	0	3
COM232	Election Rhetoric	3	0	0	0	3
COM233	Persuasive Speaking	3	0	0	0	3
COM251	Debate I	3	0	0	0	3
COM252	Debate II	3	0	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 235	Survey of Film as Literature	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
PHY 110	Conceptual Physics	3	0	0	0	3
PHY 110A	Conceptual Physics Lab	0	2	0	0	1

	Title	Class	Lab	Clinical	W Exp.	Credits
POL 130	State & Local Government	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 63-67 for a listing of these courses.

Pre-Major Associate in Arts Business Education & Marketing Education (A1010C)

This program is designed for students who intend to major in Business Education and Marketing Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary and admission is competitive across the several programs in Business Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I and II. For information and registration for PRAXIS, contact www.ets.org/praxis or a counselor in Student Services.

	Title	Class	Lab	Clinical	W Exp.	Credits
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A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.

ACA 115	Success and Study Skills	0	2	0	0	1
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Title	Class	Lab	Clinical	W Exp.	Credits
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I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
<i>Select one course from the following:</i>						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following discipline areas:

Art

ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3

Foreign Languages

FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3

Humanities

HUM110	Technology and Society	3	0	0	0	3
HUM115	Critical Thinking	3	0	0	0	3
HUM122	Southern Culture	3	0	0	0	3
HUM130	Myth in Human Culture	3	0	0	0	3
HUM160	Introduction to Film	2	2	0	0	3
HUM161	Advanced Film Studies	2	2	0	0	3
HUM211	Humanities I	3	0	0	0	3
HUM212	Humanities II	3	0	0	0	3

Music

MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3

		Title	Class	Lab	Clinical	W Exp.	Credits
Philosophy							
PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
<i>Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts):</i>							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Intro. to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC) <i>Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. <u>At least one course must be a history course.</u></i>							
History (Select one course from the following):							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Economics (the following course is required):							
ECO	251	Principles of Microeconomics	3	0	0	0	3
<i>Students must select two courses (6 SHC) from at least two of the following discipline areas. (PSY 150 and SOC 210 are recommended):</i>							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
Sociology						
SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3

Natural Sciences/Mathematics (14-15 SHC)

Natural Sciences (8 SHC) *Select two courses (including accompanying laboratory work) (AST,BIO, CHM, or PHY) from the following biological and physical science disciplines:*

[	AST 151	General Astronomy I	3	0	0	0	3
	AST 151A	General Astronomy I Lab	0	2	0	0	1
	AST 152	General Astronomy II	3	0	0	0	3
	AST 152A	General Astronomy II Lab	0	2	0	0	1
[	BIO 111	General Biology I	3	3	0	0	4
	BIO 112	General Biology II	3	3	0	0	4
	CHM 131	Introduction to Chemistry	3	0	0	0	3
	CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
	CHM 132	Organic and Biochemistry	3	3	0	0	4
	CHM 151	General Chemistry I	3	3	0	0	4
	CHM 152	General Chemistry II	3	3	0	0	4
	PHY 151	College Physics I	3	2	0	0	4
	PHY 152	College Physics II	3	2	0	0	4

Mathematics (6-7 SHC) *Select at least one course in introductory mathematics.*

Introductory Mathematics *(Select one):*

MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4

The following course is required:

CIS 110	Introduction to Computers	2	2	0	0	3
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Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (19-21) *A minimum of 19 SHC of college transfer general education, elective, and/or pre-major courses is required.*

The following three courses are required:

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ECO 252	Principles of Macroeconomics	3	0	0	0	3
CIS 115	Intro. to Programming & Logic	2	2	0	0	3

Select 9-10 SHC hours from the following courses (three of the first four courses are recommended):

ACC 121	Principles of Managerial Accounting	3	2	0	0	4
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
MAT 151	Statistics	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 63-67 for a listing of these courses.

Pre-Major Associate in Arts Criminal Justice

(A1010D)

This program is designed for students who intend to major in Criminal Justice. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary and admission is competitive across the several programs in Criminal Justice.

	Title	Class	Lab	Clinical	W Exp.	Credits
ACA 115	Success and Study Skills	0	2	0	0	1

A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.

Title	Class	Lab	Clinical	W Exp.	Credits
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I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
<i>Select one course from the following:</i>						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following discipline areas:

Art

ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3

Foreign Languages

FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3

Humanities

HUM110	Technology and Society	3	0	0	0	3
HUM115	Critical Thinking	3	0	0	0	3
HUM122	Southern Culture	3	0	0	0	3
HUM130	Myth in Human Culture	3	0	0	0	3
HUM160	Introduction to Film	2	2	0	0	3
HUM161	Advanced Film Studies	2	2	0	0	3
HUM211	Humanities I	3	0	0	0	3
HUM212	Humanities II	3	0	0	0	3

Music

MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3

Philosophy

PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
<i>Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)</i>						
COM 110	Introduction to Communication	3	0	0	0	3
COM 120	Intro. to Interpersonal Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3

Social/Behavioral Sciences (12 SHC) *Four courses from the following discipline areas are required. One history course is required.*

History (Select one course from the following):

HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3

The following courses (9 SHC) are required:

POL 120	American Government	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
SOC 210	Introduction to Sociology	3	0	0	0	3

Natural Sciences/Mathematics (14 SHC)

Natural Sciences (8 SHC) *Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:*

AST 151	General Astronomy I	3	0	0	0	3
AST 151A	General Astronomy I Lab	0	2	0	0	1
AST 152	General Astronomy II	3	0	0	0	3
AST 152A	General Astronomy II Lab	0	2	0	0	1
BIO 111	General Biology I	3	3	0	0	4
BIO 112	General Biology II	3	3	0	0	4
CHM 131	Introduction to Chemistry	3	0	0	0	3
CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
CHM 132	Organic and Biochemistry	3	3	0	0	4
CHM 151	General Chemistry I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
PHY 151	College Physics I	3	2	0	0	4
PHY 152	College Physics II	3	2	0	0	4
PHY 251	General Physics I	3	3	0	0	4
PHY 252	General Physics II	3	3	0	0	4

Mathematics (6 SHC) *Select at least one course in introductory mathematics.*

Introductory Mathematics (Select one):

MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4

The following course is required:

MAT 151	Statistics I	3	0	0	0	3
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Students should check with the university of their choice to make sure that they complete the appropriate math course.

Title	Class	Lab	Clinical	W Exp.	Credits
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A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

The following courses are required:

CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3

Select 11 SHC from the following:

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
AST 111	Descriptive Astronomy	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
AST 251	Observational Astronomy	1	3	0	0	2
BIO 110	Principles of Biology	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CHM 263	Analytical Chemistry	3	4	0	0	5
CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Introduction to Programming & Logic	2	2	0	0	3
COM 130	Nonverbal Communication	3	0	0	0	3
COM 140	Intro. to Intercultural Communication	3	0	0	0	3
COM 150	Introduction to Mass Communication	3	0	0	0	3
COM 160	Small Group Communication	3	0	0	0	3
COM 232	Election Rhetoric	3	0	0	0	3
COM 233	Persuasive Speaking	3	0	0	0	3
COM 251	Debate I	3	0	0	0	3
COM 252	Debate II	3	0	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ECO 151	Survey of Economics	3	0	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 235	Survey of Film as Literature	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
POL 110	Introduction to Political Science	3	0	0	0	3
POL 130	State & Local Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 239	Psychology of Personality	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Pre-Major Associate in Arts Elementary Education

(A1010R)

This program is designed for students who intend to major in Elementary Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary and admission is competitive across the several programs in Elementary Education. Minimum statewide requirements are:

1. Minimum 2.5 grade-point average on a 4.0 scale.
 2. Satisfactory passing scores as established by the State Board of Education on PRAXIS I – PPST-Reading; PPST-Writing; PPST-Math.
- For information and registration for PRAXIS, contact www.ets.org/praxis or a counselor in Student Services.

Receiving institutions may have additional requirements, pre-requisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

Title	Class	Lab	Clinical	W Exp.	Credits
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A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.

ACA 115	Success and Study Skills	0	2	0	0	1
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I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
<i>Select one course from the following:</i>						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from the following discipline areas. At least one course must be a literature course.*

Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
ENG 232	American Literature II	3	0	0	0	3
<i>The following course is required to substitute for 3 SHC of Humanities/Fine Arts.</i>						
COM231	Public Speaking	3	0	0	0	3
<i>One of the following courses is required:</i>						
ART 111	Art Appreciation	3	0	0	0	3
MUS 110	Music Appreciation	3	0	0	0	3
<i>One additional course from the following discipline areas is required:</i>						
Art						
ART 116	Survey of American Art	3	0	0	0	3
Foreign Languages						
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
Humanities						
HUM110	Technology and Society	3	0	0	0	3
HUM115	Critical Thinking	3	0	0	0	3
HUM122	Southern Culture	3	0	0	0	3
HUM130	Myth in Human Culture	3	0	0	0	3
HUM160	Introduction to Film	2	2	0	0	3
HUM161	Advanced Film Studies	2	2	0	0	3
HUM211	Humanities I	3	0	0	0	3
HUM212	Humanities II	3	0	0	0	3
Literature <i>Up to 6 SHC from the following:</i>						
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3
Music						
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
REL 221	Religion in America	3	0	0	0	3
Social/Behavioral Sciences (12 SHC) <i>Four courses from the following discipline areas are required. One history course is required.</i>						
History (Select one course from the following):						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
<i>The following course is required:</i>						
PSY 150	General Psychology	3	0	0	0	3
<i>Choose one of the following courses:</i>						
SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
<i>One additional course from the following discipline areas is required:</i>						
Anthropology						
ANT 210	General Anthropology	3	0	0	0	3
Economics						
ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
Geography						
GEO 111	World Regional Geography	3	0	0	0	3
GEO 112	Cultural Geography	3	0	0	0	3
GEO 113	Economic Geography	3	0	0	0	3
GEO 130	General Physical Geography	3	0	0	0	3
History						
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
Political Science						
POL 110	Introduction to Political Science	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3
Psychology						
PSY 237	Social Psychology	3	0	0	0	3
PSY 239	Psychology of Personality	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
Sociology						
SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
SOC 240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)						
Natural Sciences (8 SHC) <i>One of the following courses is required:</i>						
AST 111	Descriptive Astronomy	3	0	0	0	3
	AND					
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
	OR					
BIO 110	Principles of Biology	3	3	0	0	4
	OR					
BIO 111	General Biology I	3	3	0	0	4
<i>Select one of the following courses:</i>						
CHM 131	Introduction to Chemistry	3	0	0	0	3
	AND					
CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
	OR					
CHM 151	General Chemistry I	3	3	0	0	4
	OR					
PHY 110	Conceptual Physics	3	0	0	0	3
	AND					
PHY 110A	Conceptual Physics Lab	0	2	0	0	1
	OR					
PHY 151	College Physics I	3	2	0	0	4

Mathematics (6 SHC)

Two of the following courses are required:

CIS 110	Introduction to Computers	2	2	0	0	3
MAT 140	Survey of Mathematics	3	0	0	0	3
MAT 161	College Algebra (or higher)	3	0	0	0	3

Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. OTHER REQUIRED HOURS (20 SHC)

It is recommended that within the 20 semester hours of "Other Required Hours," pre-education students in Elementary Education select courses that will help meet a corollary studies area. These courses should be selected in conjunction with the requirements at each university, since available corollary studies may not be offered on each university campus. Corollary Studies are comprised of a minimum of 18 hours of community college or UNC campuses' coursework in a choice of four interdisciplinary areas: (1) diversity studies, (2) global issues, (3) the arts, or (4) math, science and technology. Satisfying the UNC Board of Governors' requirement for an academic concentration, corollary studies are appropriate for expanding and deepening the pre-service elementary teacher's knowledge, appreciation and skills in the areas appropriate to the elementary school classroom and curriculum. The following recommended courses in these corollary studies may be taken as general education or as "Other Required Hours."

Title	Class	Lab	Clinical	W Exp.	Credits
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Recommended Courses for Corollary Studies Areas:

Diversity Studies:

A minimum 18-hour multidisciplinary area of corollary studies that increases the pre-service teacher's knowledge of, respect for, and skills in working with students, families, and communities of diverse abilities, languages, races, and cultural backgrounds. Select courses from a minimum of two and a maximum of three different fields (prefixes) as listed below:

Anthropology:

ANT 210	General Anthropology	3	0	0	0	3
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Communication:

COM 120	Intro. to Interpersonal Communications	3	0	0	0	3
COM 140	Intro. to Intercultural Communication	3	0	0	0	3

English:

ENG 262	World Literature II	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3

Geography:

GEO 112	Cultural Geography	3	0	0	0	3
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History:

HIS 226	The Civil War	3	0	0	0	3
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Humanities:

HUM 122	Southern Culture	3	0	0	0	3
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Psychology:

PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3

Religion:

REL 110	World Religions	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3

Sociology:

SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3

Languages:

SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3

Universities may add diversity choices to this list with courses they have available and deem appropriate.

Title	Class	Lab	Clinical	W Exp.	Credits
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Global Issues:

A minimum 18-hour multidisciplinary Global Issues area of corollary studies that encompasses courses with a common theme of providing insight into the human condition in the world. The corollary studies area of Global Issues will increase the pre-service teacher's knowledge and understanding of the world in which we live and contemporary issues affecting the world. Courses addressing a particular region in the world or courses about a particular historical period were not included. The perception of a global issue is subjective and courses included in this area may change over time. Select courses from a minimum of two and a maximum of three different fields (prefixes) as listed below:

Economics:

ECO 252	Principles of Macroeconomics	3	0	0	0	3
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Geography:

GEO 111	World Regional Geography	3	0	0	0	3
GEO 112	Cultural Geography	3	0	0	0	3
GEO 113	Economic Geography	3	0	0	0	3

Humanities:

HUM110	Technology and Society	3	0	0	0	3
HUM211	Humanities I	3	0	0	0	3
HUM212	Humanities II	3	0	0	0	3

Philosophy:

PHI 240	Introduction to Ethics	3	0	0	0	3
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Political Science:

POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3

Religion:

REL 110	World Religions	3	0	0	0	3
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Sociology:

SOC 220	Social Problems	3	0	0	0	3
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Universities may add global issues choices to this list with courses they have available and deem appropriate.

The Arts:

A minimum 18-hour area of corollary studies in the Arts will increase the pre-service teacher's knowledge and appreciation of the visual and performing arts and their history. Pre-service teachers who select this area of corollary studies will be prepared to use the Arts to further children's understanding of the world, of diverse cultures, and of multiple ways of constructing knowledge and expressing themselves.

Students will choose a minimum of eighteen hours of coursework from the approved lists. Their selections must be drawn from a minimum of two and a maximum of three categories/disciplines (prefixes) across the following two lists. Students may choose up to six hours of coursework from List II. The remainder of coursework (12-18 hours) must be from List I.

Title	Class	Lab	Clinical	W Exp.	Credits
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List I. Non-applied Courses (12-18 hours should be chosen from this list)

Art:

ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3

Music:

MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3

List II. Applied/Skilled/Ensemble Courses (Only 6 hours may be chosen)

Art:

ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3

Music:

MUS 131	Chorus I	0	2	0	0	1
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Universities may add art, dance, drama/theatre and music choices to this list with courses they have available and deem appropriate.

Math, Science and Technology:

A minimum 18-hour multidisciplinary area of corollary studies that increases the pre-service teacher's knowledge of, respect for, and skills in the areas of math, science and technology and their interconnectedness. Select courses from a minimum of two and a maximum of three different fields (prefixes) as listed below:

Technology:

CIS 110	Introduction to Computers	3	0	0	0	3
CIS 115	Intro. to Programming and Logic	3	0	0	0	3
HUM110	Technology and Society	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3

Mathematics (math lab credit hours are not included in 18 hour concentration, e.g. 151A):

MAT 140	Survey of Mathematics	3	0	0	0	3
MAT 151	Statistics I	3	0	0	0	3
MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4
MAT 263	Brief Calculus	3	0	0	0	3
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MAT 273	Calculus III	3	2	0	0	4

Science:

AST 111	Descriptive Astronomy	3	0	0	0	3
AST 151	General Astronomy I	3	0	0	0	3
AST 152	General Astronomy II	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
BIO 110	Principles of Biology	3	3	0	0	4
BIO 111	General Biology I	3	3	0	0	4
BIO 112	General Biology II	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
CHM 131	Introduction to Chemistry	3	3	0	0	4
CHM 132	Organic and Biochemistry	3	3	0	0	4
CHM 151	General Chemistry I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
PHY 151	College Physics I	3	2	0	0	4
PHY 152	College Physics II	3	2	0	0	4
PHY 251	General Physics I	3	3	0	0	4
PHY 252	General Physics II	3	3	0	0	4

Universities may add math, science and technology choices to this list with courses they have available and deem appropriate.

Select 2 SHC from the following:

MAT 151A	Statistics I Lab	0	2	0	0	1
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements.

Receiving institutions may have additional requirements, prerequisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Pre-Major Associate in Arts History

(A1010H)

This program is designed for students who intend to major in History. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary and admission is competitive across the several programs in History.

	Title	Class	Lab	Clinical	W Exp.	Credits
<i>A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.</i>						
ACA 115	Success and Study Skills	0	2	0	0	1

I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
<i>Select one course from the following: (ENG 112 or ENG 113 is recommended to satisfy the second composition requirement.)</i>						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

<i>Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):</i>						
ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following discipline areas:

	Title	Class	Lab	Clinical	W Exp.	Credits
Art						
ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3
Foreign Languages						
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
Humanities						
HUM110	Technology and Society	3	0	0	0	3
HUM115	Critical Thinking	3	0	0	0	3
HUM122	Southern Culture	3	0	0	0	3
HUM130	Myth in Human Culture	3	0	0	0	3
HUM160	Introduction to Film	3	0	0	0	3
HUM161	Advanced Film Studies	2	2	0	0	3
HUM211	Humanities I	3	0	0	0	3
HUM212	Humanities II	3	0	0	0	3
Music						
MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
<i>Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)</i>						
COM110	Introduction to Communication	3	0	0	0	3
COM120	Intro. to Interpersonal Communication	3	0	0	0	3
COM231	Public Speaking	3	0	0	0	3

Social/Behavioral Sciences (12 SHC) *Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. At least one course must be a history course.*

History (6 SHC) *Select one of the following history sequences :*

HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
OR						
HIS 121	Western Civilization I	3	0	0	0	3

Title			Class	Lab	Clinical	W Exp.	Credits
HIS 122	Western Civilization II		3	0	0	0	3
Students must select two courses (6 SHC) from at least two of the following discipline areas:							
Anthropology							
ANT 210	General Anthropology		3	0	0	0	3
Economics							
ECO 251	Principles of Microeconomics		3	0	0	0	3
ECO 252	Principles of Macroeconomics		3	0	0	0	3
Geography							
GEO 111	World Regional Geography		3	0	0	0	3
GEO 112	Cultural Geography		3	0	0	0	3
GEO 113	Economic Geography		3	0	0	0	3
GEO 130	General Physical Geography		3	0	0	0	3
Political Science							
POL 110	Introduction to Political Science		3	0	0	0	3
POL 120	American Government		3	0	0	0	3
POL 210	Comparative Government		3	0	0	0	3
POL 220	International Relations		3	0	0	0	3
Psychology							
PSY 150	General Psychology		3	0	0	0	3
PSY 237	Social Psychology		3	0	0	0	3
PSY 239	Psychology of Personality		3	0	0	0	3
PSY 241	Developmental Psychology		3	0	0	0	3
PSY 281	Abnormal Psychology		3	0	0	0	3
Sociology							
SOC 210	Introduction to Sociology		3	0	0	0	3
SOC 213	Sociology of the Family		3	0	0	0	3
SOC 220	Social Problems		3	0	0	0	3
SOC 225	Social Diversity		3	0	0	0	3
SOC 230	Race and Ethnic Relations		3	0	0	0	3
SOC 240	Social Psychology		3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC) Select two courses (including accompanying laboratory work) (AST,BIO, CHM, or PHY) from the following biological and physical science disciplines:							
[AST 151	General Astronomy I		3	0	0	0	3
[AST 151A	General Astronomy I Lab		0	2	0	0	1
[AST 152	General Astronomy II		3	0	0	0	3
[AST 152A	General Astronomy II Lab		0	2	0	0	1
[BIO 111	General Biology I		3	3	0	0	4
[BIO 112	General Biology II		3	3	0	0	4
[CHM 131	Introduction to Chemistry		3	0	0	0	3
[CHM 131A	Introduction to Chemistry Lab		0	3	0	0	1
[CHM 132	Organic and Biochemistry		3	3	0	0	4
[CHM 151	General Chemistry I		3	3	0	0	4
[CHM 152	General Chemistry II		3	3	0	0	4
[PHY 151	College Physics I		3	2	0	0	4
[PHY 152	College Physics II		3	2	0	0	4

Title	Class	Lab	Clinical	W Exp.	Credits
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Mathematics (6 SHC) *Select at least one course in introductory mathematics. The other course may be selected from among other quantitative subjects, such as computer science and statistics.*

Introductory Mathematics (Select one):

MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4

Select one course from the following:

CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Intro. to Programming & Logic	2	2	0	0	3
MAT 151	Statistics I	3	0	0	0	3
MAT 263	Brief Calculus	3	0	0	0	3

Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required. ACA and COE coursework may NOT be used to satisfy the minimum requirement of 20 SHC.*

(HIS 131 and HIS 132 are recommended.)

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
AST 111	Descriptive Astronomy	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
AST 251	Observational Astronomy	1	3	0	0	2
BIO 110	Principles of Biology	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
BUS 137	Principles of Management	3	0	0	0	3
CHM263	Analytical Chemistry	3	4	0	0	5
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
COM130	Nonverbal Communication	3	0	0	0	3
COM140	Intro. to Intercultural Communication	3	0	0	0	3
COM150	Introduction to Mass Communication	3	0	0	0	3
COM160	Small Group Communication	3	0	0	0	3
COM232	Election Rhetoric	3	0	0	0	3
COM233	Persuasive Speaking	3	0	0	0	3
COM251	Debate I	3	0	0	0	3
COM252	Debate II	3	0	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ECO 151	Survey of Economics	3	0	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 235	Survey of Film as Literature	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MAT151A	Statistics I Lab	0	2	0	0	1
MAT271	Calculus I	3	2	0	0	4
MAT272	Calculus II	3	2	0	0	4
MAT273	Calculus III	3	2	0	0	4
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
PHY 110	Conceptual Physics	3	0	0	0	3
PHY 110A	Conceptual Physics Lab	0	2	0	0	1
POL 130	State & Local Government	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

**Pre-Major Associate in Arts
Middle Grades Education**
(A1011A)

This program is designed for students who intend to major in Middle Grades Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary and admission is competitive across the several programs in Middle Grades Education. Minimum statewide requirements are:

- 1. Minimum 2.5 grade-point average on a 4.0 scale.
- 2. Satisfactory passing scores as established by the State Board of Education on PRAXIS I – PPST-Reading; PPST-Writing; PPST-Math.
For information and registration for PRAXIS, contact www.ets.org/praxis or a counselor in Student Services.

Receiving institutions may have additional requirements, prerequisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

Title		Class	Lab	Clinical	W Exp.	Credits
<i>A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.</i>						
ACA 115	Success and Study Skills	0	2	0	0	1

I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
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	Title	Class	Lab	Clinical	W Exp.	Credits
Select one course from the following:						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from the following discipline areas. At least one course must be a literature course.*

Literature (3 SHC) *Select one course from the following (Speech/Communication may not substitute for the literature requirement):*

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3

The following course is required to substitute for 3 SHC of Humanities/Fine Arts.

COM 231	Public Speaking	3	0	0	0	3
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One of the following courses is required:

ART 111	Art Appreciation	3	0	0	0	3
MUS 110	Music Appreciation	3	0	0	0	3

One additional course from the following discipline areas is required:

Humanities

HUM110	Technology and Society	3	0	0	0	3
HUM115	Critical Thinking	3	0	0	0	3
HUM122	Southern Culture	3	0	0	0	3
HUM130	Myth in Human Culture	3	0	0	0	3
HUM160	Introduction to Film	2	2	0	0	3
HUM161	Advanced Film Studies	2	2	0	0	3
HUM211	Humanities I	3	0	0	0	3
HUM212	Humanities II	3	0	0	0	3

Literature

Up to 6 SHC from the following:

ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Philosophy

PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3

Religion

REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3

Social/Behavioral Sciences (12 SHC) *Four courses from the following discipline areas are required. One history course is required.*

History (Select one course from the following):

HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3

Title			Class	Lab	Clinical	W Exp.	Credits
HIS 121	Western Civilization I		3	0	0	0	3
HIS 122	Western Civilization II		3	0	0	0	3
<i>The following course is required:</i>							
PSY 150	General Psychology		3	0	0	0	3
<i>Choose one of the following courses:</i>							
SOC 210	Introduction to Sociology		3	0	0	0	3
SOC 225	Social Diversity		3	0	0	0	3
<i>One additional course from the following discipline areas is required:</i>							
Anthropology							
ANT 210	General Anthropology		3	0	0	0	3
Economics							
ECO 251	Principles of Microeconomics		3	0	0	0	3
ECO 252	Principles of Macroeconomics		3	0	0	0	3
Geography							
GEO 111	World Regional Geography		3	0	0	0	3
GEO 112	Cultural Geography		3	0	0	0	3
GEO 113	Economic Geography		3	0	0	0	3
GEO 130	General Physical Geography		3	0	0	0	3
History							
HIS 131	American History I		3	0	0	0	3
HIS 132	American History II		3	0	0	0	3
Political Science							
POL 110	Introduction to Political Science		3	0	0	0	3
POL 120	American Government		3	0	0	0	3
POL 210	Comparative Government		3	0	0	0	3
POL 220	International Relations		3	0	0	0	3
Psychology							
PSY 237	Social Psychology		3	0	0	0	3
PSY 239	Psychology of Personality		3	0	0	0	3
PSY 241	Developmental Psychology		3	0	0	0	3
PSY 281	Abnormal Psychology		3	0	0	0	3
Sociology							
SOC 210	Introduction to Sociology		3	0	0	0	3
SOC 213	Sociology of the Family		3	0	0	0	3
SOC 220	Social Problems		3	0	0	0	3
SOC 225	Social Diversity		3	0	0	0	3
SOC 230	Race and Ethnic Relations		3	0	0	0	3
SOC 240	Social Psychology		3	0	0	0	3

Natural Sciences (8 SHC) *One of the following courses is required:*

BIO 110	Principles of Biology	3	3	0	0	4
OR						
BIO 111	General Biology I	3	3	0	0	4
<i>Select one of the following courses:</i>						
CHM131	Introduction to Chemistry	3	0	0	0	3
AND						
CHM131A	Introduction to Chemistry Lab	0	3	0	0	1
OR						
CHM151	General Chemistry I	3	3	0	0	4
OR						

Title		Class	Lab	Clinical	W Exp.	Credits
PHY 110	Conceptual Physics	3	0	0	0	3
AND						
PHY 110A	Conceptual Physics Lab	0	2	0	0	1
OR						
PHY 151	College Physics I	3	2	0	0	4

Mathematics (6 SHC)

The following two courses are required:

CIS 110	Introduction to Computers	2	2	0	0	3
MAT 161	College Algebra (or higher)	3	0	0	0	3

Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

- At certain UNC institutions, EDU 221 Children with Exceptionalities may fulfill major requirements; at a majority of institutions the courses will transfer as free electives. Students should check with the university to which they intend to transfer for the local transfer policy regarding EDU 221.
- It is recommended that within the 20 semester hours of “Other Required Hours” pre-education students in Middle Grades Education select courses that will help meet two of the four corollary studies areas (Mathematics, Social Studies, Science, and Language Arts) in order to be consistent with NC licensure areas. These courses should be selected in conjunction with the requirements at each university, since available academic concentrations and their specific requirements differ on each campus. Some institutions of higher education require that the two areas be Science and Mathematics or Social Studies and Language Arts. Others allow the student to choose any two of the four areas.
- It is recommended the pre-major Middle Grades Education students not choose additional courses in Art, Communications, Foreign Languages, Music, or Physical Education. These courses will not assist students in completing their major.

Recommended Courses for Typical Academic Concentrations

Science: *Up to 12 SHC from the following:*

AST 111	Descriptive Astronomy	3	0	0	0	3
AST 151	General Astronomy I	3	0	0	0	3
AST 152	General Astronomy II	3	0	0	0	3
BIO 110	Principles of Biology	3	3	0	0	4
BIO 111	General Biology I	3	0	0	0	3
BIO 112	General Biology II	3	0	0	0	3
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
CHM 131	Introduction to Chemistry	3	0	0	0	3
CHM 151	General Chemistry I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
PHY 151	College Physics I	3	2	0	0	4
PHY 152	College Physics II	3	2	0	0	4

	Title	Class	Lab	Clinical	W Exp.	Credits
Language Arts: <i>Up to 12 SHC from the following:</i>						
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
Social Sciences: <i>Up to 12 SHC from the following:</i>						
ECO 151	Survey of Economics OR	3	0	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	0	3
GEO 111	World Regional Geography OR	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
HIS 111	World Civilizations I AND	3	0	0	0	3
HIS 112	World Civilizations II OR	3	0	0	0	3
HIS 121	Western Civilization I AND	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I AND	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
POL 110	Introduction to Political Science	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
POL 130	State & Local Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 213	Sociology in the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 230	Race & Ethnic Relations	3	0	0	0	3
Mathematics: <i>Up to 12 SCH from the following:</i>						
MAT 151	Statistics I	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MAT 175	Precalculus	4	0	0	0	4
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4

Receiving institutions may have additional requirements, prerequisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institutions(s) they anticipate attending.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Pre-Major Associate in Arts Nursing

(A1010I)

This program is designed for students who intend to major in Nursing. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Admission across the several programs in Nursing is competitive. Other professional admission requirements may be designated by individual programs. Grade-point average requirements vary, and admission is competitive across the several programs in Nursing.

Title		Class	Lab	Clinical	W Exp.	Credits
<i>A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.</i>						
ACA 115	Success and Study Skills	0	2	0	0	1

I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
<i>Select one course from the following:</i>						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

<i>Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):</i>						
ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
Select three courses (9 SHC) from at least two of the following discipline areas:						
Art						
ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3
Foreign Languages						
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
Humanities						
HUM110	Technology and Society	3	0	0	0	3
HUM115	Critical Thinking	3	0	0	0	3
HUM122	Southern Culture	3	0	0	0	3
HUM130	Myth in Human Culture	3	0	0	0	3
HUM160	Introduction to Film	2	2	0	0	3
HUM161	Advanced Film Studies	2	2	0	0	3
HUM211	Humanities I	3	0	0	0	3
HUM212	Humanities II	3	0	0	0	3
Music						
MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)						
COM110	Introduction to Communication	3	0	0	0	3
COM120	Intro. to Interpersonal Communication	3	0	0	0	3
COM231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC) Four courses from the following discipline areas are required. One history course is required.						
History (Select one course from the following):						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
<i>The following courses (9 SHC) are required:</i>						
PSY 150	General Psychology	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
SOC 210	Introduction to Sociology	3	0	0	0	3

Natural Sciences/Mathematics (14 SHC)

Natural Sciences (8 SHC) *The following courses are required:*

CHM 131	Introduction to Chemistry	3	0	0	0	3
CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
CHM 132	Organic and Biochemistry	3	3	0	0	4
OR						
CHM 151	General Chemistry I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4

Mathematics (6 SHC) *Select at least one course in introductory mathematics.*

Introductory Mathematics (Select one):

MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4

The following course is required:

MAT 151	Statistics I	3	0	0	0	3
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Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

The following courses (18 SHC) are required:

BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
PSY 281	Abnormal Psychology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3

Select 2 SHC from the following:

MAT 151A	Statistics I Lab	0	2	0	0	1
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Pre-Major Associate in Arts Political Science

(A1010K)

This program is designed for students who intend to major in Political Science. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Political Science.

Title	Class	Lab	Clinical	W Exp.	Credits
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A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.

ACA 115	Success and Study Skills	0	2	0	0	1
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I. GENERAL EDUCATION (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
<i>Select one course from the following:</i>						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following

discipline areas: (One of the following course sequences is recommended:

ASL 111 & ASL 112; FRE 111 & FRE 112; GER 111 & GER 112; or SPA 111 & SPA 112).

	Title	Class	Lab	Clinical	W Exp.	Credits
Art						
ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3
Foreign Languages						
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
Humanities						
HUM 110	Technology and Society	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
HUM 122	Southern Culture	3	0	0	0	3
HUM 130	Myth in Human Culture	3	0	0	0	3
HUM 160	Introduction to Film	2	2	0	0	3
HUM 161	Advanced Film Studies	2	2	0	0	3
HUM 211	Humanities I	3	0	0	0	3
HUM 212	Humanities II	3	0	0	0	3
Music						
MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
<i>Speech/Communication (one of the following courses is recommended to substitute for 3 SHC of Humanities/Fine Arts).</i>						
COM 110	Introduction to Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC) <i>Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. <u>At least one course must be a history course.</u></i>						
History (Select one course from the following:)						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3

Students must select three courses (9 SHC) from at least two of the following discipline areas (note recommendations):

Title		Class	Lab	Clinical	W Exp.	Credits
Anthropology						
ANT 210	General Anthropology	3	0	0	0	3
Economics (<i>One of the following is recommended</i>)						
ECO 151	Survey of Economics	3	0	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
Geography (<i>One of the following courses is recommended</i>)						
GEO 111	World Regional Geography	3	0	0	0	3
GEO 112	Cultural Geography	3	0	0	0	3
GEO 113	Economic Geography	3	0	0	0	3
Political Science						
POL 110	Introduction to Political Science	3	0	0	0	3
Psychology (<i>PSY 150 is recommended</i>)						
PSY 150	General Psychology	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 239	Psychology of Personality	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
Sociology (<i>One of the following is recommended: SOC 210, SOC 220, or SOC 225.</i>)						
SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)						
Natural Sciences (8 SHC) <i>Select two courses (including accompanying laboratory work) (AST,BIO, CHM, or PHY) from the following biological and physical science disciplines:</i>						
[AST 151	General Astronomy I	3	0	0	0	3
[AST 151A	General Astronomy I Lab	0	2	0	0	1
[AST 152	General Astronomy II	3	0	0	0	3
[AST 152A	General Astronomy II Lab	0	2	0	0	1
[BIO 111	General Biology I	3	3	0	0	4
[BIO 112	General Biology II	3	3	0	0	4
[CHM 131	Introduction to Chemistry	3	0	0	0	3
[CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
[CHM 132	Organic and Biochemistry	3	3	0	0	4
[CHM 151	General Chemistry I	3	3	0	0	4
[CHM 152	General Chemistry II	3	3	0	0	4
[PHY 151	College Physics I	3	2	0	0	4
[PHY 152	College Physics II	3	2	0	0	4
[PHY 251	General Physics I	3	3	0	0	4
[PHY 252	General Physics II	3	3	0	0	4
Mathematics (6 SHC) <i>Select at least one course in introductory mathematics; the other course may be selected from among other quantitative subjects, such as computer science and statistics.</i>						
Introductory Mathematics (Select one:)						
MAT 140	Survey of Mathematics	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4
Select one course from the following (CIS 110 is recommended):						
CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Intro. to Programming & Logic	2	2	0	0	3
MAT 151	Statistics I	3	0	0	0	3
MAT 263	Brief Calculus	3	0	0	0	3

Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

The following course is required:

POL 120	American Government	3	0	0	0	3
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Select 17 hours from the following courses. The following courses are recommended: POL 210 and POL 220. One of these courses are recommended: ECO 151, 251 or 252.

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
AST 111	Descriptive Astronomy	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
AST 251	Observational Astronomy	1	3	0	0	2
BIO 110	Principles of Biology	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CHM 263	Analytical Chemistry	3	4	0	0	5
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
COM 130	Nonverbal Communication	3	0	0	0	3
COM 140	Intro. to Intercultural Communication	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
COM 150	Introduction to Mass Communication	3	0	0	0	3
COM 160	Small Group Communication	3	0	0	0	3
COM 232	Election Rhetoric	3	0	0	0	3
COM 233	Persuasive Speaking	3	0	0	0	3
COM 251	Debate I	3	0	0	0	3
COM 252	Debate II	3	0	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 235	Survey of Film as Literature	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MAT 273	Calculus III	3	2	0	0	4
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
POL 130	State & Local Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Pre-Major Associate in Arts Psychology

(A1010L)

This program is designed for students who intend to major in Psychology. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Psychology.

Title	Class	Lab	Clinical	W Exp.	Credits
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A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.

ACA 115	Success and Study Skills	0	2	0	0	1
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I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
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Select one course from the following:

ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following discipline areas:

Art

ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
Foreign Languages						
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
Humanities						
HUM 110	Technology and Society	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
HUM 122	Southern Culture	3	0	0	0	3
HUM 130	Myth in Human Culture	3	0	0	0	3
HUM 160	Introduction to Film	2	2	0	0	3
HUM 161	Advanced Film Studies	2	2	0	0	3
HUM 211	Humanities I	3	0	0	0	3
HUM 212	Humanities II	3	0	0	0	3
Music						
MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
<i>Speech/Communication (one of the following courses may be substituted for 3 SHC of Humanities/Fine Arts):</i>						
COM 110	Introduction to Communication	3	0	0	0	3
COM 120	Intro. to Interpersonal Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC) <i>Select four courses from at least three of the following discipline areas: anthropology, geography, history, political science, psychology, and sociology. <u>At least one course must be a history course.</u></i>						
History (Select one course from the following):						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
Required Psychology course:						
PSY 150	General Psychology	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits	
<i>Students must select two courses (6 SHC) from at least two of the following discipline areas:</i>							
Anthropology							
ANT 210	General Anthropology	3	0	0	0	3	
Economics							
ECO 251	Principles of Microeconomics	3	0	0	0	3	
ECO 252	Principles of Macroeconomics	3	0	0	0	3	
Geography							
GEO 111	World Regional Geography	3	0	0	0	3	
GEO 112	Cultural Geography	3	0	0	0	3	
GEO 113	Economic Geography	3	0	0	0	3	
GEO 130	General Physical Geography	3	0	0	0	3	
Political Science							
POL 110	Introduction to Political Science	3	0	0	0	3	
POL 120	American Government	3	0	0	0	3	
POL 210	Comparative Government	3	0	0	0	3	
POL 220	International Relations	3	0	0	0	3	
Psychology							
PSY 237	Social Psychology	3	0	0	0	3	
PSY 239	Psychology of Personality	3	0	0	0	3	
PSY 241	Developmental Psychology	3	0	0	0	3	
PSY 281	Abnormal Psychology	3	0	0	0	3	
Sociology							
SOC 210	Introduction to Sociology	3	0	0	0	3	
SOC 213	Sociology of the Family	3	0	0	0	3	
SOC 220	Social Problems	3	0	0	0	3	
SOC 225	Social Diversity	3	0	0	0	3	
SOC 230	Race and Ethnic Relations	3	0	0	0	3	
SOC 240	Social Psychology	3	0	0	0	3	
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC) <i>Select from the following biological and physical science disciplines:</i>							
<i>Select one course from the following:</i>							
BIO 110	Principles of Biology	OR	3	3	0	0	4
BIO 111	General Biology I		3	3	0	0	4
<i>Select one course from the following:</i>							
<i>(Labs must be taken as indicated)</i>							
[AST 111	Descriptive Astronomy	3	0	0	0	3
[AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
[AST 151	General Astronomy I	3	0	0	0	3
[AST 151A	General Astronomy I Lab	0	2	0	0	1
	BIO 112	General Biology II	3	3	0	0	4
[CHM 131	Introduction to Chemistry	3	0	0	0	3
[CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
	CHM 151	General Chemistry I	3	3	0	0	4
[PHY 110	Conceptual Physics	3	0	0	0	3
[PHY 110A	Conceptual Physics Lab	0	2	0	0	1
	PHY 151	College Physics I	3	2	0	0	4

Title		Class	Lab	Clinical	W Exp.	Credits
Mathematics (6 SHC) <i>Select at least one course in introductory mathematics. The other course may be selected from among other quantitative subjects, such as computer science and statistics.</i>						
Introductory Mathematics (Select one):						
MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4
<i>Select one course from the following:</i>						
CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Intro. to Programming & Logic	2	2	0	0	3
MAT 151	Statistics I	3	0	0	0	3
MAT 263	Brief Calculus	3	0	0	0	3
Students should check with the university of their choice to make sure that they complete the appropriate math course.						
A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.						
II. Other Required Hours (20 SHC) <i>A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.</i>						
ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
AST 152	General Astronomy II	3	0	0	0	3
AST 152A	General Astronomy II Lab	0	2	0	0	1
AST 251	Observational Astronomy	1	3	0	0	2
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CHM 132	Organic and Biochemistry	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
CHM 263	Analytical Chemistry	3	4	0	0	5
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
COM 130	Nonverbal Communication	3	0	0	0	3
COM 140	Intro. to Intercultural Communication	3	0	0	0	3
COM 150	Introduction to Mass Communication	3	0	0	0	3
COM 160	Small Group Communication	3	0	0	0	3
COM 232	Election Rhetoric	3	0	0	0	3
COM 233	Persuasive Speaking	3	0	0	0	3
COM 251	Debate I	3	0	0	0	3
COM 252	Debate II	3	0	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ECO 151	Survey of Economics	3	0	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 235	Survey of Film as Literature	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MAT 273	Calculus III	3	2	0	0	4
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
PHY 152	College Physics II	3	2	0	0	4
PHY 252	General Physics II	3	3	0	0	4
POL 130	State & Local Government	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Pre-Major Associate in Arts Social Science Secondary Education

(A1010M)

This program is designed for students who intend to major in Social Science Secondary Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Social Science Secondary Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I and II. For information and registration for PRAXIS, contact www.ets.org/praxis or a counselor in Student Services.

Title	Class	Lab	Clinical	W Exp.	Credits
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A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.

ACA 115	Success and Study Skills	0	2	0	0	1
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I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
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Select one course from the following (ENG 112 OR ENG 113 is recommended):

ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Title	Class	Lab	Clinical	W Exp.	Credits
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Select three courses (9 SHC) from at least two of the following discipline areas:

Art

ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3

Foreign Languages

FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3

Humanities

HUM110	Technology and Society	3	0	0	0	3
HUM115	Critical Thinking	3	0	0	0	3
HUM122	Southern Culture	3	0	0	0	3
HUM130	Myth in Human Culture	3	0	0	0	3
HUM 160	Introduction to Film	2	2	0	0	3
HUM 161	Advanced Film Studies	2	2	0	0	3
HUM 211	Humanities I	3	0	0	0	3
HUM 212	Humanities II	3	0	0	0	3

Music

MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3

Philosophy

PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3

Religion

REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3

Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts):

COM110	Introduction to Communication	3	0	0	0	3
COM120	Intro. to Interpersonal Communication	3	0	0	0	3
COM231	Public Speaking	3	0	0	0	3

Social/Behavioral Sciences (12 SHC)

The following courses are required (6 SHC):

POL 120	American Government	3	0	0	0	3
SOC 210	Introduction to Sociology	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
History <i>Select one of the following course sequences (6 SHC). HIS 111 and HIS 112 are recommended:</i>						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
OR						
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3

Natural Sciences/Mathematics (14 SHC)

Natural Sciences (8 SHC) *Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:*

[	AST 151	General Astronomy I	3	0	0	0	3
	AST 151A	General Astronomy I Lab	0	2	0	0	1
	AST 152	General Astronomy II	3	0	0	0	3
	AST 152A	General Astronomy II Lab	0	2	0	0	1
[	BIO 111	General Biology I	3	3	0	0	4
	BIO 112	General Biology II	3	3	0	0	4
	CHM 131	Introduction to Chemistry	3	0	0	0	3
	CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
	CHM 132	Organic and Biochemistry	3	3	0	0	4
	CHM 151	General Chemistry I	3	3	0	0	4
	CHM 152	General Chemistry II	3	3	0	0	4
	PHY 151	College Physics I	3	2	0	0	4
	PHY 152	College Physics II	3	2	0	0	4
	PHY 251	General Physics I	3	3	0	0	4
	PHY 252	General Physics II	3	3	0	0	4

Mathematics (6 SHC) *Select at least one course in introductory mathematics.*

The other unit may be selected from among other quantitative subjects, such as computer science and statistics.

Introductory Mathematics (Select one):

MAT 140	Survey of Mathematics	3	0	0	0	3
MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4
<i>Select one course from the following:</i>						
CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Intro. to Programming & Logic	2	2	0	0	3
MAT 151	Statistics I	3	0	0	0	3
MAT 263	Brief Calculus	3	0	0	0	3

Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

The following courses are required:

ECO 151	Survey of Economics	3	0	0	0	3
GEO 111	World Regional Geography	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
Select 8 SHC from the following courses:						
ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ANT 210	General Anthropology	3	0	0	0	3
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
AST 111	Descriptive Astronomy	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
AST 251	Observational Astronomy	1	3	0	0	2
BIO 110	Principles of Biology	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CHM263	Analytical Chemistry	3	4	0	0	5
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
COM130	Nonverbal Communication	3	0	0	0	3
COM140	Intro. to Intercultural Communication	3	0	0	0	3
COM150	Introduction to Mass Communication	3	0	0	0	3
COM160	Small Group Communication	3	0	0	0	3
COM232	Election Rhetoric	3	0	0	0	3
COM233	Persuasive Speaking	3	0	0	0	3
COM251	Debate I	3	0	0	0	3
COM252	Debate II	3	0	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 235	Survey of Film as Literature	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
GEO 112	Cultural Geography	3	0	0	0	3
GEO 113	Economic Geography	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
GEO 130	General Physical Geography	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
POL 110	Introduction to Political Science	3	0	0	0	3
POL 130	State & Local Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 239	Psychology of Personality	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Pre-Major Associate in Arts Social Work

(A1010Q)

This program is designed for students who intend to major in Social Work. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Social Work.

Title		Class	Lab	Clinical	W Exp.	Credits
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A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.

ACA 115	Success and Study Skills	0	2	0	0	1
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I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
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Select one course from the following:

ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

Literature (3 SHC) Select one course from the following (Speech/Communication may not substitute for the literature requirement):

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following discipline areas:

Art

ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
Foreign Languages						
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
Humanities						
HUM 110	Technology and Society	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
HUM 122	Southern Culture	3	0	0	0	3
HUM 130	Myth in Human Culture	3	0	0	0	3
HUM 160	Introduction to Film	2	2	0	0	3
HUM 161	Advanced Film Studies	2	2	0	0	3
HUM 211	Humanities I	3	0	0	0	3
HUM 212	Humanities II	3	0	0	0	3
Music						
MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
<i>Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts):</i>						
COM 110	Introduction to Communication	3	0	0	0	3
COM 120	Intro. to Interpersonal Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)						
<i>Four courses from the following discipline areas are required. One history course is required:</i>						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
<i>The following courses are required:</i>						
POL 120	American Government	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
SOC 210	Introduction to Sociology	3	0	0	0	3

Title	Class	Lab	Clinical	W Exp.	Credits
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Natural Sciences/Mathematics (14 SHC)

Natural Sciences (8 SHC) *The following courses are required:*

BIO 111	General Biology I	3	3	0	0	4
BIO 112	General Biology II	3	3	0	0	4

Mathematics (6 SHC)

One of the following courses is required.

MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4

Select one course from the following to satisfy the second mathematics requirement:

CIS 110	Introduction to Computers	2	2	0	0	3
MAT 151	Statistics I	3	0	0	0	3

Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

Select from the following 12 recommended courses:

ANT 210	General Anthropology	3	0	0	0	3
ECO 151	Survey of Economics	3	0	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Pre-Major Associate in Arts Sociology

(A1010N)

This program is designed for students who intend to major in Sociology. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Sociology.

	Title	Class	Lab	Clinical	W Exp.	Credits
<i>A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.</i>						
ACA 115	Success and Study Skills	0	2	0	0	1

I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111	Expository Writing	3	0	0	0	3
<i>Select one course from the following (ENG 112 is recommended):</i>						
ENG 112	Argument-Based Research	3	0	0	0	3
ENG 113	Literature-Based Research	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC) *Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course.*

Literature (3 SHC) *Select one course from the following (Speech/Communication may not substitute for the literature requirement):*

ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following discipline areas:

Art

ART 111	Art Appreciation	3	0	0	0	3
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Title		Class	Lab	Clinical	W Exp.	Credits
ART 116	Survey of American Art	3	0	0	0	3
Foreign Languages						
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
Humanities						
HUM110	Technology and Society	3	0	0	0	3
HUM115	Critical Thinking	3	0	0	0	3
HUM122	Southern Culture	3	0	0	0	3
HUM130	Myth in Human Culture	3	0	0	0	3
HUM160	Introduction to Film	2	2	0	0	3
HUM161	Advanced Film Studies	2	2	0	0	3
HUM211	Humanities I	3	0	0	0	3
HUM212	Humanities II	3	0	0	0	3
Music						
MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
<i>Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts):</i>						
COM110	Introduction to Communication	3	0	0	0	3
COM120	Intro. to Interpersonal Communication	3	0	0	0	3
COM231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC) <i>Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. <u>At least one course must be a history course.</u></i>						
History (Select one course from the following):						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
Sociology (<i>The following course is required:</i>						
SOC 210	Introduction to Sociology	3	0	0	0	3
<i>Select one of the following SOC courses:</i>						
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3
<i>Students must select one course (3 SHC) from the following:</i>						
Anthropology						
ANT 210	General Anthropology	3	0	0	0	3
Economics						
ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
Geography						
GEO 111	World Regional Geography	3	0	0	0	3
GEO 112	Cultural Geography	3	0	0	0	3
GEO 113	Economic Geography	3	0	0	0	3
GEO 130	General Physical Geography	3	0	0	0	3
Political Science						
POL 110	Introduction to Political Science	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3
Psychology						
PSY 150	General Psychology	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 239	Psychology of Personality	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)						
Natural Sciences (8 SHC) <i>Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:</i>						
[AST 151	General Astronomy I	3	0	0	0	3
[AST 151A	General Astronomy I Lab	0	2	0	0	1
[AST 152	General Astronomy II	3	0	0	0	3
[AST 152A	General Astronomy II Lab	0	2	0	0	1
[BIO 111	General Biology I	3	3	0	0	4
[BIO 112	General Biology II	3	3	0	0	4
[CHM 131	Introduction to Chemistry	3	0	0	0	3
[CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
[CHM 132	Organic and Biochemistry	3	3	0	0	4
[CHM 151	General Chemistry I	3	3	0	0	4
[CHM 152	General Chemistry II	3	3	0	0	4
[PHY 151	College Physics I	3	2	0	0	4
[PHY 152	College Physics II	3	2	0	0	4
[PHY 251	General Physics I	3	3	0	0	4
[PHY 252	General Physics II	3	3	0	0	4

Title	Class	Lab	Clinical	W Exp.	Credits
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Mathematics (6 SHC) *Select at least one course in introductory mathematics:*

Introductory Mathematics (Select one):

MAT 140	Survey of Mathematics	3	0	0	0	3
MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4

The following mathematics course is required:

MAT 151	Statistics I	3	0	0	0	3
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Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
AST 111	Descriptive Astronomy	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
AST 251	Observational Astronomy	1	3	0	0	2
BIO 110	Principles of Biology	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CHM 263	Analytical Chemistry	3	4	0	0	5
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Intro. to Programming & Logic	2	2	0	0	3
COM 130	Nonverbal Communication	3	0	0	0	3
COM 140	Intro. to Intercultural Communication	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
COM 150	Introduction to Mass Communication	3	0	0	0	3
COM 160	Small Group Communication	3	0	0	0	3
COM 232	Election Rhetoric	3	0	0	0	3
COM 233	Persuasive Speaking	3	0	0	0	3
COM 251	Debate I	3	0	0	0	3
COM 252	Debate II	3	0	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ECO 151	Survey of Economics	3	0	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 235	Survey of Film as Literature	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MAT 263	Brief Calculus	3	0	0	0	3
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MAT 273	Calculus III	3	2	0	0	4
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
POL 130	State & Local Government	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Pre-Major Associate in Arts Special Education

(A1010Z)

This program is designed for students who intend to major in Special Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary and admission is competitive across the several programs in Special Education. Minimum statewide requirements are:

1. Minimum 2.5 grade-point average on a 4.0 scale.
2. Satisfactory passing scores as established by the State Board of Education on PRAXIS 1 - PPST-Reading; PPST-Writing; PPST-Math or other SBE approved options. For information and registration for PRAXIS, contact www.ets.org/praxis or a counselor in Student Services.

Receiving institutions may have additional requirements, pre-requisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

Title	Class	Lab	Clinical	W Exp.	Credits
<i>A success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts degree. This course may not transfer to a senior institution.</i>					
ACA 115 Success and Study Skills	0	2	0	0	1

I. General Education (44 SHC)

English Composition (6 SHC)

ENG 111 Expository Writing	3	0	0	0	3
<i>Select one course from the following:</i>					
ENG 112 Argument-Based Research	3	0	0	0	3
ENG 113 Literature-Based Research	3	0	0	0	3
ENG 114 Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts (12 SHC)

Four courses from three discipline areas are required.

Literature (3 SHC) Select one course from the following:

ENG 131 Introduction to Literature	3	0	0	0	3
ENG 231 American Literature I	3	0	0	0	3
ENG 232 American Literature II	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
<i>One of the following courses is required (3 SHC):</i>						
ART 111	Art Appreciation	3	0	0	0	3
MUS 110	Music Appreciation	3	0	0	0	3
<i>The following course is required to substitute for 3 SHC of Humanities/Fine Arts:</i>						
COM231	Public Speaking	3	0	0	0	3
<i>Select one additional course (3 SHC) from the following discipline areas:</i> <i>art, foreign languages, interdisciplinary humanities, literature, music, philosophy, and religion.</i>						
Art						
ART 111	Art Appreciation	3	0	0	0	3
ART 116	Survey of American Art	3	0	0	0	3
Foreign Languages						
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
GER 111	Elementary German I	3	0	0	0	3
GER 112	Elementary German II	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 211	Intermediate Spanish I	3	0	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
Humanities						
HUM110	Technology and Society	3	0	0	0	3
HUM115	Critical Thinking	3	0	0	0	3
HUM122	Southern Culture	3	0	0	0	3
HUM130	Myth in Human Culture	3	0	0	0	3
HUM160	Introduction to Film	2	2	0	0	3
HUM161	Advanced Film Studies	2	2	0	0	3
HUM211	Humanities I	3	0	0	0	3
HUM212	Humanities II	3	0	0	0	3
Literature <i>Up to 6 SHC from the following:</i>						
ENG 131	Introduction to Literature	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 251	Western World Literature I	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3
Music						
MUS 110	Music Appreciation	3	0	0	0	3
MUS 113	American Music	3	0	0	0	3
Philosophy						
PHI 210	History of Philosophy	3	0	0	0	3
PHI 220	Western Philosophy I	3	0	0	0	3
PHI 221	Western Philosophy II	3	0	0	0	3
PHI 230	Introduction to Logic	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3

Title		Class	Lab	Clinical	W Exp.	Credits
Religion						
REL 110	World Religions	3	0	0	0	3
REL 211	Introduction to Old Testament	3	0	0	0	3
REL 212	Introduction to New Testament	3	0	0	0	3
REL 221	Religion in America	3	0	0	0	3
Social/Behavioral Sciences (12 SHC) <i>Four courses from three discipline areas are required.</i>						
History (Select one course from the following):						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
Psychology (the following course is required):						
PSY 150	General Psychology	3	0	0	0	3
Sociology (one of the following courses is required):						
SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
<i>Select one additional course (3 SHC) from the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology</i>						
Anthropology						
ANT 210	General Anthropology	3	0	0	0	3
Economics						
ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
Geography						
GEO 111	World Regional Geography	3	0	0	0	3
GEO 112	Cultural Geography	3	0	0	0	3
GEO 113	Economic Geography	3	0	0	0	3
GEO 130	General Physical Geography	3	0	0	0	3
History						
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 121	Western Civilization I	3	0	0	0	3
HIS 122	Western Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
Political Science						
POL 110	Introduction to Political Science	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
POL 210	Comparative Government	3	0	0	0	3
POL 220	International Relations	3	0	0	0	3
Psychology						
PSY 237	Social Psychology	3	0	0	0	3
PSY 239	Psychology of Personality	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
Sociology						
SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 225	Social Diversity	3	0	0	0	3
SOC 230	Race and Ethnic Relations	3	0	0	0	3
SOC 240	Social Psychology	3	0	0	0	3

Natural Sciences/Mathematics (14 SHC)

Natural Sciences (8 SHC) *One of the following courses is required:*

BIO 110	Principles of Biology	3	3	0	0	4
OR						
BIO 111	General Biology I	3	3	0	0	4
Select one:						
CHM131	Introduction to Chemistry	3	0	0	0	3
AND						
CHM131A	Introduction to Chemistry Lab	0	3	0	0	1
OR						
CHM151	General Chemistry	3	3	0	0	4
OR						
PHY 110	Conceptual Physics	3	0	0	0	3
AND						
PHY 110A	Conceptual Physics Lab	0	2	0	0	1
OR						
PHY 151	College Physics I	3	2	0	0	4

Mathematics (6 SHC)

Two of the following courses are required:

CIS 110	Introduction to Computers	2	2	0	0	3
MAT 140	Survey of Mathematics	3	0	0	0	3
MAT 161	College Algebra (or higher)	3	0	0	0	3

Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

II. Other Required Hours (20 SHC) *A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.*

- At certain UNC institutions, EDU 221 Children with Exceptionalities may fulfill major requirements; at a majority of institutions this course will transfer only as a free elective. Students should check with the university for the local transfer policy regarding EDU 221 Children with Exceptionalities.
- It is recommended that with the 20 semester hours of "Other Required Hours" pre-major students in Special Education should select one of the following options:
 - Elective Option - 20 semester hours of approved college transfer courses
 - English Option - 12 semester hours in English beyond general education requirements
 - Mathematics/Natural Sciences Option - 12 semester hours in Mathematics or Natural Sciences beyond general education requirements
 - Foreign Language Option - 12 semester hours in Foreign Language beyond general education requirements

	Title	Class	Lab	Clinical	W Exp.	Credits
ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
ART 121	Design I	0	6	0	0	3
ART 122	Design II	0	6	0	0	3
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 135	Figure Drawing I	0	6	0	0	3
ART 214	Portfolio and Resumé	0	2	0	0	1
ART 240	Painting I	0	6	0	0	3
ART 241	Painting II	0	6	0	0	3
ART 244	Watercolor	0	6	0	0	3
ART 261	Photography I	0	6	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 288	Studio	0	6	0	0	3
AST 111	Descriptive Astronomy	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
AST 251	Observational Astronomy	1	3	0	0	2
BIO 110	Principles of Biology	3	3	0	0	4
BIO 112	General Biology II	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CHM132	Organic and Biochemistry	3	3	0	0	4
CHM263	Analytical Chemistry	3	4	0	0	5
CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Introduction to Programming & Logic	2	2	0	0	3
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
COM110	Introduction to Communication	3	0	0	0	3
COM120	Intro. to Interpersonal Communication	3	0	0	0	3
COM130	Nonverbal Communication	3	0	0	0	3
COM140	Intercultural Communication	3	0	0	0	3
COM150	Introduction to Mass Communication	3	0	0	0	3
COM160	Small Group Communication	3	0	0	0	3
COM232	Election Rhetoric	3	0	0	0	3
COM233	Persuasive Speaking	3	0	0	0	3
COM251	Debate I	3	0	0	0	3
COM252	Debate II	3	0	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC Programming	2	3	0	0	3

	Title	Class	Lab	Clinical	W Exp.	Credits
DFT 170	Engineering Graphics	2	2	0	0	3
ECO 151	Survey of Economics	3	0	0	0	3
EDU 221	Children with Exceptionalities	3	0	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
ENG 126	Creative Writing II	3	0	0	0	3
ENG 132	Introduction to Drama	3	0	0	0	3
ENG 235	Survey of Film as Literature	3	0	0	0	3
ENG 272	Southern Literature	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
ENG 274	Literature by Women	3	0	0	0	3
GEO 121	North Carolina Geography	3	0	0	0	3
HEA 110	Personal Health/Wellness	3	0	0	0	3
HIS 160	Labor Relations in the US	3	0	0	0	3
HIS 163	The World Since 1945	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
JOU 110	Introduction to Journalism	3	0	0	0	3
MAT 151	Statistics I	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
MAT 175	Precalculus	4	0	0	0	4
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MAT 273	Calculus III	3	2	0	0	4
MUS 131	Chorus I	0	2	0	0	1
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 128	Golf - Beginning	0	2	0	0	1
PED 142	Lifetime Sports	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
POL 130	State & Local Government	3	0	0	0	3
PSY 211	Psychology of Adjustment	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
PSY 249	Psychology of Aging	3	0	0	0	3
PSY 259	Human Sexuality	3	0	0	0	3
SOC 234	Sociology of Gender	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
SOC 250	Sociology of Religion	3	0	0	0	3

III. TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

College Transfer students who are undecided about a pre-major program should select either the Associate in Arts major (A10100) or the Associate in Science major (A10400).

Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives for Associate in Applied Science Programs and Diploma Programs

Humanities / Fine Arts		Social / Behavioral Sciences	
ART 111	PHI 220	ANT 210	POL 220
ART 116	PHI 221	ECO 151	PSY 110
* ENG 231	PHI 230	ECO 251	PSY 118
* ENG 232	PHI 240	ECO 252	PSY 150
* ENG 241	REL 110	GEO 111	PSY 211
* ENG 242	REL 211	GEO 112	PSY 237
* ENG 251	REL 212	GEO 113	PSY 239
* ENG 262	REL 221	GEO 121	PSY 241
* ENG 272		GEO 130	PSY 249
* ENG 273		HIS 111	PSY 281
* ENG 274		HIS 112	SOC 210
HUM 110		HIS 121	SOC 213
**HUM 115		HIS 122	SOC 220
HUM 122		HIS 131	SOC 225
HUM 130		HIS 132	SOC 230
HUM 160		HIS 163	SOC 234
HUM 161		HIS 226	SOC 240
HUM 211		HIS 236	SOC 242
HUM 212		POL 110	SOC 250
MUS 110		POL 120	
MUS 113		POL 130	
PHI 210		POL 210	

* *These ENG courses require a prerequisite or corequisite of ENG 112, ENG 113, or ENG 114. Automotive Systems Technology, Cosmetology and Radiography do not require ENG 112, ENG 113, or ENG 114 in their program of study. Therefore, these ENG courses will not satisfy the Humanities/Fine Arts requirement for these two programs.*

** *HUM 115 may meet the SACS humanities requirement for AAS degree programs.*

Un-Declared Program

Students Who Have Not Yet Chosen a Technical or Vocational Program

Choosing a career goal, a program of study, can be a difficult decision. It must be made with careful consideration and guidance. A student who wishes to enroll in classes but who has not yet chosen a program may begin in the General Occupational Technology program. The following suggestions are useful guidance in selecting first-term classes and activities for an undecided student. These suggestions should assist the student in reaching a program choice or career goal.

1. Seek career counseling through the C.O.R.E. program in Student Services at either campus.
2. Take ACA 090 Study Skills, or ACA 115 Success and Study Skills.
3. Take appropriate courses in reading, English, math, or algebra as recommended by the COMPASS Placement program.
4. Consider taking introductory courses in subject areas of interest. Be aware that individual courses may or may not count in a subsequently selected program of study.
5. Consider attending one of the Health program orientations if there is interest in health-related occupations. These orientations are offered on a regular basis, and the schedule can be obtained in the Student Services Office.

Accounting

Associate in Applied Science Degree
(A25100)

The 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” and technology resources, accountants assemble and analyze, process and communicate essential information about financial operations.

In addition to course work in accounting principles, theories, and practice, students will study business law, finance, management, and economics. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry-level accounting positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies. With work experience and additional education, an individual may advance in the accounting profession.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Robin Turner at 704-216-3789 or send an email to turnerr@rowancabarrus.edu.

The following is a suggested program of study for completing this program in five semesters. Some students’ programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

Title	Class	Lab	Clinical	W Exp.	Credits
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First Year (Fall)

•	ACA	115	Success and Study Skills	0	2	0	0	1
•	ACC	120	Principles of Financial Accounting	3	2	0	0	4
•	BUS	115	Business Law I	3	0	0	0	3
•	CIS	110	Introduction to Computers	2	2	0	0	3
	ENG	111	Expository Writing	3	0	0	0	3
	MAT	140	Survey of Mathematics	3	0	0	0	3
			OR					
	MAT	161	College Algebra	3	0	0	0	3
			OR					
	MAT	175	Precalculus	4	0	0	0	4
			Total	14-15	6	0	0	17-18

First Year (Spring)

• ACC 121	Principles of Managerial Accounting	3	2	0	0	4
• ACC 129	Individual Income Taxes	2	2	0	0	3
ACC 140	Payroll Accounting	1	2	0	0	2
ACC 150	Accounting Software Applications	1	2	0	0	2
• ACC 220	Intermediate Accounting I	3	2	0	0	4
ENG 114	Professional Research & Reporting	3	0	0	0	3
Total		13	10	0	0	18

First Year (Summer)

PSY	150	General Psychology	3	0	0	0	3
---	---	Humanities/Fine Arts Elective (p.162)	3	0	0	0	3
Total			6	0	0	0	6

Second Year (Fall)

ACC	221	Intermediate Accounting II	3	2	0	0	4
ACC	225	Cost Accounting	3	0	0	0	3
ACC	240	Government & Not-for-Profit Acct.	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
COM	110	Introduction to Communication	3	0	0	0	3
OR							
COM	231	Public Speaking	3	0	0	0	3
---	---	Major Elective*	0-3	2-4	0	0-30	3
Total			15-18	2-4	0	0-30	19

Second Year (Spring)

ACC 227	Practices in Accounting	3	0	0	0	3
ACC 250	Advanced Accounting	3	0	0	0	3
ACC 269	Auditing & Assurance Services	3	0	0	0	3
• ECO 251	Principles of Microeconomics	3	0	0	0	3
	OR					
• ECO 252	Principles of Macroeconomics	3	0	0	0	3
---	Major Elective*	0-3	2-4	0	0-30	3
	Total	15-18	0-4	0	0-30	15

Total Semester Hours Credit (SHC) in Program: 75-76

- **This is a Core course and cannot be substituted.**

***Major Electives:**

Select 6 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	W Exp.	Credits
ACC	132	NC Business Taxes	2	0	0	0	2
BUS	125	Personal Finance	3	0	0	0	3
BUS	217	Employment Law and Regulations	3	0	0	0	3
BUS	225	Business Finance	2	2	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	260	Business Communication	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
CTS	130	Spreadsheet	2	2	0	0	3
INT	110	International Business	3	0	0	0	3
COE	110	World of Work	1	0	0	0	1
COE	111	Co-Op Work Experience I	0	0	0	10	1
COE	112	Co-Op Work Experience I	0	0	0	20	2
COE	113	Co-Op Work Experience I	0	0	0	30	3
COE	121	Co-Op Work Experience II	0	0	0	10	1
COE	122	Co-Op Work Experience II	0	0	0	20	2
COE	131	Co-Op Work Experience III	0	0	0	10	1
COE	132	Co-Op Work Experience III	0	0	0	20	2

Accounting

Diploma Program

(D25100)

Courses		Credit Hours
• ACC 120	Principles of Financial Accounting	4
• ACC 121	Principles of Managerial Accounting	4
• ACC 129	Individual Income Taxes	3
ACC 132	NC Business Taxes	2
ACC 140	Payroll Accounting	2
ACC 150	Accounting Software Applications	2
ACC 220	Intermediate Accounting I	4
• BUS 115	Business Law I	3
BUS 137	Principles of Management	3
CIS 110	Introduction to Computers	3
ENG 111	Expository Writing	3
ENG 114	Professional Research & Reporting	3
PSY 150	General Psychology	3
Total Semester Hours Credit:		39

- This is a Core course and cannot be substituted.

Accounting

Certificate Programs (C25100)

Courses		Credit Hours
Technical Track Certificate (C25100TT)		
ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting	4
ACC 129	Individual Income Taxes	3
ACC 220	Intermediate Accounting I	4
ACC 225	Cost Accounting	3
Total Semester Hours Credit:		18
Managerial Track Certificate (C25100MT)		
ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting	4
ACC 220	Intermediate Accounting I	4
ACC 225	Cost Accounting	3
ACC 269	Auditing & Assurance Services	3
Total Semester Hours Credit:		18
Government Track Certificate (C25100GT)		
ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting	4
ACC 132	NC Business Taxes	2
ACC 220	Intermediate Accounting I	4
ACC 240	Government & Not-for-Profit Accounting	3
Total Semester Hours Credit:		17
Tax Track Certificate (C25100XT)		
ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting	4
ACC 129	Individual Income Taxes	3
ACC 132	NC Business Taxes	2
ACC 140	Payroll Accounting	2
ACC 150	Accounting Software Applications	2
Total Semester Hours Credit:		17
Personal Finance Certificate (C25100PF)		
ACC 120	Principles of Financial Accounting	4
ACC 129	Individual Income Taxes	3
ACC 132	NC Business Taxes	2
ACC 140	Payroll Accounting	2
BUS 125	Personal Finance	3
BUS 217	Employment Law and Regulations	3
Total Semester Hours Credit:		15

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Agricultural Biotechnology

Associate in Applied Science Degree
(A20110)

The Agricultural Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological, chemical, and agricultural technology. The curriculum objectives are designed to prepare graduates to serve as a research assistant to a biologist or chemist; as a laboratory technician/instrumentation technician; or as a quality control/quality assurance technician. The curriculum will also serve to identify/create new areas of opportunity for farmers and other potential clients in rural North Carolina.

Course work emphasizes biology, plant tissue culturing, biotechnology, agriculture, chemistry, horticulture, mathematics, and technical communication.

Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales, customer services, and production of alternative (bioengineered) crops.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Dean Dr. Wendy Jin at 704-216-7217 or send an email to jjnw@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
MAT	151	Statistics	3	0	0	0	3
MAT	151A	Statistics Lab	0	2	0	0	1
Total			12	10	0	0	16
First Year (Spring)							
• AGR	160	Plant Science	2	2	0	0	3
BIO	112	General Biology II	3	3	0	0	4
• BIO	280	Biotechnology	2	3	0	0	3
CHM	132	Organic and Biochemistry	3	3	0	0	4
ENG	112	Argument-Based Research	3	0	0	0	3
OR							
ENG	114	Professional Research & Reporting	3	0	0	0	3
Total			13	11	0	0	17
First Year (Summer)							
BIO	275	Microbiology	3	3	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
Total			5	5	0	0	7

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Fall)							
BIO	250	Genetics	3	3	0	0	4
• BTC	150	Bioethics	3	0	0	0	3
BTC	181	Basic Lab Techniques	3	3	0	0	4
• BTC	285	Cell Culture	2	3	0	0	3
• HOR	168	Plant Propagation	2	2	0	0	3
Total			13	11	0	0	17

Second Year (Spring)							
AGR	214	Agricultural Marketing OR	3	0	0	0	3
HOR	134	Greenhouse Operations	2	2	0	0	3
BTC	270	Recombinant DNA Technology	3	3	0	0	4
• BTC	286	Immunological Techniques	3	3	0	0	4
PSY	118	Interpersonal Psychology OR	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
Total			11-12	6-8	0	0	14

Second Year (Summer)							
• BTC	288	Biotech Lab Experience	0	6	0	0	2
---	---	Humanities/Fine Arts Elective (p.162)	3	0	0	0	3
Total			3	6	0	0	5

Total Semester Hours Credit (SHC) in Program:

76

- This is a Core course and cannot be substituted.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Air Conditioning, Heating & Refrigeration Technology

Associate in Applied Science Degree
(A35100)

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the A.A.S. degree covers residential building codes, residential system sizing and advanced comfort systems. An A.A.S. degree is currently in the planning stages for this program.

Diploma graduates should be able to assist in the start-up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. A.A.S. degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Joe Christie at 704-216-3908 or send an email to christiej@rowancabarrus.edu, or instructor Fred Loving at 704-216-3912 or send an email to lovingf@rowancabarrus.edu, or instructor Jon Crockett at 704-216-3909 or send an email to crockettj@rowancabarrus.edu.

The following is a suggested program of study for completing this program in three semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time). Entry-level courses are offered year round for students to begin their education during any semester.

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA 115	Success & Study Skills		0	2	0	0	1
• AHR 110	Introduction to Refrigeration		2	6	0	0	5
• AHR 111	HVACR Electricity		2	2	0	0	3
• AHR 112	Heating Technology		2	4	0	0	4
Total			6	14	0	0	13
First Year (Spring)							
• AHR 113	Comfort Cooling		2	4	0	0	4
AHR 115	Refrigeration Systems		1	3	0	0	2
AHR 130	HVAC Controls		2	2	0	0	3
CIS 110	Introduction to Computers		2	2	0	0	3
Total			7	11	0	0	12
First Year (Summer)							
• AHR 114	Heat Pump Technology		2	4	0	0	4
AHR 160	Refrigerant Certification		1	0	0	0	1
• AHR 211	Residential System Design		2	2	0	0	3
• AHR 220	Commercial Building Codes		2	0	0	0	2
Total			7	6	0	0	10

Title	Class	Lab	Clinical	W Exp.	Credits
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Second Year (Fall)

• AHR	212	Advanced Comfort Systems	2	6	0	0	4
AHR	151	HVAC Duct Systems I	1	3	0	0	2
ENG	111	Expository Writing	3	0	0	0	3
MAT	115	Mathematical Models	2	2	0	0	3
		OR					
PHY	110	Conceptual Physics	3	0	0	0	3
		Total	8-9	8-10	0	0	12

Second Year (Spring)

AHR	215	Commercial HVACR Controls	1	3	0	0	2
AHR	255	Indoor Air Quality	1	2	0	0	2
ENG	114	Professional Research & Reporting OR	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Social/Behavioral Sciences Elective (<i>p.162</i>)	3	0	0	0	3
Total			11	5	0	0	13

Second Year (Summer)

AHR	180	HVACR Customer Relations	1	0	0	0	1
		OR					
COE	111	Co-op Work Experience I	0	0	0	10	1
• AHR	225	Commercial System Design	2	3	0	0	3
AHR	235	Refrigeration Design	2	2	0	0	3
AHR	250	HVAC System Diagnostics	0	4	0	0	2
		OR					
COE	112	Co-op Work Experience I	0	0	0	20	2
Total			4-5	5-9	0	0-20	9

Total Semester Hours Credit (SHC) in Program: 69

- **This is a Core course and cannot be substituted.**

Air Conditioning, Heating & Refrigeration Technology

Diploma Program
(D35100)

Courses			Credit Hours
AHR	110	Introduction to Refrigeration	5
AHR	111	HVACR Electricity	3
AHR	112	Heating Technology	4
AHR	113	Comfort Cooling	4
AHR	115	Refrigeration Systems	2
AHR	130	HVAC Controls	3
AHR	151	HVAC Duct Systems I	2
AHR	160	Refrigerant Certification	1
AHR	180	HVACR Customer Relations	1
OR			
COE	111	Co-op Work Experience I	1
AHR	114	Heat Pump Technology	4
AHR	211	Residential System Design	3
AHR	220	Commercial Building Codes	2
CIS	110	Introduction to Computers	3
ENG	111	Expository Writing	3
OR			
ENG	102	Applied Communications II	3
—	—	General Education Elective	3
Total Semester Hours Credit:			43

Air Conditioning, Heating & Refrigeration Technology

Certificate Programs
(C35100)

Courses		Credit Hours
Basic Certificate (C35100BA)		
AHR 110	Introduction to Refrigeration	5
AHR 111	HVACR Electricity	3
AHR 112	Heating Technology	4
AHR 151	HVAC Duct Systems I	2
Total Semester Hours Credit:		14
Comfort Cooling Certificate (C35100CC)		
AHR 113	Comfort Cooling	4
AHR 114	Heat Pump Technology	4
AHR 130	HVAC Controls	3
AHR 211	Residential System Design	3
Total Semester Hours Credit:		14
Refrigeration Certificate (C35100RF)		
AHR 110	Introduction to Refrigeration	5
AHR 115	Refrigeration Systems	2
AHR 160	Refrigerant Certification	1
AHR 220	Commercial Building Codes	2
AHR 235	Refrigeration Design	3
Total Semester Hours Credit:		13
Commercial Certificate (C35100CO)		
AHR 160	Refrigerant Certification	1
AHR 212	Advanced Comfort Systems	4
AHR 215	Commercial HVACR Controls	2
AHR 220	Commercial Building Codes	2
AHR 225	Commercial System Design	3
AHR 255	Indoor Air Quality	2
Total Semester Hours Credit:		14

Associate Degree Nursing - Integrated

Associate In Applied Science Degree
(A45100)

The Associate Degree Nursing curriculum provides individuals with the knowledge and skills necessary to provide nursing care to clients and groups of clients throughout the lifespan in a variety of settings.

Courses will include content related to the nurse's role as provider of nursing care, as manager of care, as member of the discipline of nursing, and as a member of the interdisciplinary team.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN) which is required for practice as a Registered Nurse. Employment opportunities include hospitals, long term care facilities, clinics, physicians' offices, industry and community agencies.

The following Admission Requirements are not eligible for appeal and are subject to change:

ADMISSION REQUIREMENTS:

Please note important deadlines for applying to the nursing programs. Admission requirements will be finalized by February 1 of each year for the subsequent year. Program requirements will be finalized by August 1 of each year for the subsequent year.

In addition to the general enrollment process for Rowan-Cabarrus Community College, the applicant must complete the following:

1. To be considered for the nursing class beginning August of each year, all applicants must:
 - a. Submit an "Interest Form" to the Admissions office February 1 – October 1 of the previous year. Interest Forms will be available in Student Services.
 - b. Meet admission requirements (1-7) prior to January 1 of the year to be admitted.
Example: Applicant wants to be considered for admission August 2009:
(1) applicant must complete admission criteria (1-7) prior to January 1, 2009;
(2) ***applicant must submit an Interest Form February 1-October 1, 2008.***
 - c. Applicants will be admitted based on a competitive selection process.
 - d. All applicants who are not accepted must re-submit an Interest Form during the following time period of February 1 - October 1, to be considered for the next year's class.
2. Attend one (1) of three (3) Nursing Information Sessions offered by the nursing education faculty annually, in order to make informed decisions regarding their program selection (must be within one year of the admission year).
3. At the end of the Information Session, all applicants must complete the "Program Survey" form and must sign the "Statement of Understanding Regarding Acceptance for Clinical Training." The clinical training statement pertains to submission of a required criminal history report and mandatory drug screen. Please realize that for admission to the program, a criminal background check will be required. A negative review may prevent students from participating in clinical practice (which means that they cannot complete program requirements). **FAILURE TO ATTEND WILL DELAY THE ADMISSION PROCESS.** Applicants should direct all questions regarding the program requirements to their assigned nursing faculty advisors. All applicants will be required to sign in.

4. Submit evidence of high school graduation and transcript of grades, as well as GED scores, and college transcripts, if applicable. In regards to transfer credit (or credit previously earned at RCCC), related courses within the nursing curriculum – BIO and PSY – must be within five years of January 1 of the admission year.
5. Present evidence of successful completion of the following within the last five years:
 - a. Biology – high school or BIO 106 or higher at a college level
 - b. Chemistry – high school or CHM 090 or higher at a college level
 - c. Computer – CIS 110 or make an acceptable score on the RCCC Technical Proficiency Exam (TPE)
6. Be academically prepared to enroll in ENG 111, Expository Writing, and show proficiency in the mathematics area (Numerical/Pre-Algebra, Algebra I). All applicants for admission into the nursing programs can satisfy this requirement by meeting one criterion from each of the following areas: NOTE: Placement test scores, remedial course work, and demonstrated proficiency in mathematics (Algebra I) must be acquired within the last five years of January 1 of the admission year.

Writing

- Standard score of 42 or higher on the ASSET Writing
or
- Standard score of 71 or higher on the COMPASS Writing
or
- Satisfactory completion of ENG 090
or
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) course in English composition
or
- SAT Writing score of 500 or ACT Writing score of 21
(*completed within five years of January 1 of the admission year*)

Reading

- Standard score of 42 or higher on the ASSET Reading Skills
or
- Standard score of 81 or higher on the COMPASS Reading Comprehension
or
- Satisfactory completion (grade C or higher) of a college-level (associate degree or higher) course in English composition
or
- Satisfactory completion of RED 090
or
- SAT Reading score of 500 or ACT Reading score of 21
(*completed within five years of January 1 of the admission year*)

Math-Numerical/Pre-Algebra Skills

- Standard score of 42 or higher on the ASSET Numerical Skills
or
- Standard score of 47 or higher on the COMPASS Pre-algebra
or
- Satisfactory completion of MAT 060
or
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) math course
or
- SAT Math score of 500 or ACT Math score of 21
(*completed within five years of January 1 of the admission year*)

Math-Elementary Algebra

- Standard score of 42 or higher on the ASSET Elementary Algebra + 42 or higher on the Numerical Skills
or
- Standard score of 46 or higher on the COMPASS Algebra + 47 or higher on the Pre-algebra
or
- Satisfactory completion of MAT 070
or
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) math course within the last five years
or
- SAT Math score of 500 or ACT Math score of 21
(*completed within five years of January 1 of the admission year*)

The applicant is limited to testing twice in a twelve-month period (initial test and one re-test). Placement test requirements can be met by successfully completing the remedial courses recommended after COMPASS/ASSET testing. Students who have withdrawn from the nursing education program due to academic reasons may be required to re-test and meet minimum acceptable scores. Specific placement re-test requirements will be based on individual academic deficiencies (see ADN Competency Standards). Applicants should check with the Admissions Office if they have any questions related to testing.

7. Provide evidence of successful completion of a current, non-restrictive North Carolina Nurse Aide I listing. Student must remain current in NC Nurse Aide I listing throughout the nursing program. For information on Nurse Aide I training, contact RCCC Continuing Education at 704-216-3657.
8. Applicants meeting admission requirements (1-7) prior to January 1, and submitting an Interest Form from February 1 – October 1 of the previous year will be eligible for the Health Occupations Basic Entrance Test (HOBET). The college reserves the right to extend the deadline date if necessary to secure qualified applicants for program admission. Testing dates will be provided.
 - Testing fee must be paid in the Business Office prior to testing.
 - A photo ID is required for entrance to the test.
 - Study guides will be available for purchase in the RCCC bookstore (North and South campuses).

Selection Criteria

There will be 60 ADN students selected for the day option and 20 students will be selected for the evening* option of the Associate Degree Nursing program. Admission into the nursing program is *competitive*. The higher the applicant's HOBET scores, the greater the opportunity for selection. Scores at or above the current national passing standard will be utilized to rank the applicant for selection into the Nursing program(s). Applicants must take the current HOBET test; only current test scores will be used to rank the applicants. * The evening option may be offered only every other year. Students interested in the evening option should contact Student Services to re-affirm the availability of this option offering.

Applicants who do not acquire the current national passing standard for math and reading components of the test during the initial testing period or who desire to improve their score will be eligible for one (1) re-test within the allotted admission selection time period of that year.

The applicant's highest reading and math score, which constitutes the Composite score, will be utilized and evaluated for program selection.

In the event that applicants have identical HOBET scores, the HOBET reading component will be used to further rank the applicants for the nursing program selection.

Alternate List for the Nursing Program

Applicants not offered Tentative Program Placement will be ranked, placed on an alternate list and will be admitted in that order, if space becomes available. Applicants remaining after the fall class has been filled will not be carried over to a waiting list the following year(s); they will have to reapply, meet current admission requirements, retest, and will be ranked with the applicants for the next year.

9. When items 1-8 have been successfully met, the applicant's file is reviewed by the Admissions Committee and tentative program placement is established. Full acceptance/admission into the Nursing program is not granted until the applicant completes the following items:
 - a. Satisfactory completion of the Readiness for Nursing course (grade of 77 or higher) that will be offered through the Continuing Education Program. All applicants will be required to attend one of three five-week sessions offered. Days and times will be provided through Continuing Education. In order to get credit for the course, no absences are permitted. The sessions will be scheduled beginning the month of April and ending the first of July. Class sessions will be restricted in class size to no more than 35 per class. Early registration is advised in order to ensure enrollment and to meet this prerequisite for admission into the nursing programs.
 - b. Criminal Background History Report as required by clinical sites. RCCC Admission Office will provide directives for securing the report.
 - c. Completed physical examination form (exam within the last six months) that provides evidence of satisfactory physical, emotional and mental health. Pre-admission drug screening is required (see Evaluation of Physical and Emotional Health Guidelines and Procedure Regarding Acceptance for Clinical Training for Health Programs). Problematic areas will be handled on an individual basis by the Director of Nursing Education after consultation with clinical affiliates.
 - d. Certification in basic life support, CPR, at the Health Care Provider level (adult, child, and infant). Certification can be obtained through Continuing Education and must be maintained throughout the NUR course sequence.
 - e. All applicants' admission data, including health form, CPR verification and criminal background check, must be finalized ten (10) business days prior to the first day of fall semester due to required diagnostic testing and reporting of results. Final approval for admission has to be granted by the Director of Nursing Education.
 - f. All students are required to attend the Fire Safety/Infection Control seminar scheduled in August, prior to the beginning of fall semester (date will be announced). There will be no make-up sessions provided and no exceptions. Failure to attend this required clinical seminar will prevent the student from entering NUR 110.
10. When problematic, physical, or mental health conditions exist, faculty may require timely medical reports from the student's physician confirming that the individual is physically and mentally competent to enter, or continue, in the Nursing program.

Second-year Students

Students progressing to NUR 210 are required to attend the Student Services' sponsored nursing workshop held at the end of the Summer Term of NUR 130. The Director of Nursing Education will communicate the date and time to the students.

Re-entry Students

Students unable to continue in the Nursing Program course sequence may re-apply to the Nursing Program one time. The student desiring to reapply to the program must do so within one year and will be re-evaluated for program placement based on individual circumstances and program requirements.

Acceptance is contingent upon:

- Meeting the current admission, advanced placement and graduation requirements in effect at the time of re-application. (HOBET scores that are within two years of re-entry and are at or above the current passing national average will satisfy this ADN admission criteria.)
- Availability of space.

Final approval for re-entry has to be granted by the Director of Nursing Education following a thorough review of the student's record by the nursing faculty. The Director of Nursing Education will communicate the faculty's decision to the Admissions Committee.

Advanced Placement Students

Students applying to enter the program in an advanced placement status must follow requirements stated in the Advanced Placement Policy and stipulations specified for admission. Failure to meet pre-requisite requirements will result in denial of admission. Advanced placement for college transfer students is for first level courses only in order to meet RCCC residency requirements. Final approval for advanced placement admission has to be granted by the Director of Nursing Education following a thorough review of the student's record by the nursing faculty. The Director of Nursing Education will communicate the faculty's decision to the Admissions Committee.

NON-DISCRIMINATION POLICY:

Rowan-Cabarrus Community College does not discriminate in its admissions policies and procedures on the basis of sex, race, color, national origin, age, religion or handicap.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Director of Nursing Education Cathy Norris at 704-216-3701, or send an email to norrisc@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ENG	111	Expository Writing	3	0	0	0	3
BIO	168	Anatomy and Physiology I	3	3	0	0	4
• NUR	110	Nursing I	5	3	6	0	8
PSY	150	General Psychology	3	0	0	0	3
** COE	110	World of Work	1	0	0	0	1
Total			14-15	6	6	0	18-19

First Year (Spring)

BIO	169	Anatomy and Physiology II	3	3	0	0	4
ENG	112	Argument-Based Research	3	0	0	0	3
• NUR	120	Nursing II	5	3	6	0	8
PSY	241	Developmental Psychology	3	0	0	0	3
** COE	110	World of Work	1	0	0	0	1
Total			14-15	6	6	0	18-19

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Summer)							
• NUR	130	Nursing III	4	3	6	0	7
** COE	110	World of Work	1	0	0	0	1
OR							
** COE	111	Co-op Work Experience I	0	0	0	10	1
Total			4-5	3	6	0-10	7-8

Second Year (Fall)

BIO	275	Microbiology	3	3	0	0	4
• NUR	210	Nursing IV	5	3	12	0	10
** COE	110	World of Work	1	0	0	0	1
		OR					
** COE	111	Co-op Work Experience I	0	0	0	10	1
		Total	8-9	6	12	0-10	14-15

Second Year (Spring)

• NUR	220	Nursing V	4	3	15	0	10
** COE	110	World of Work	1	0	0	0	1
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			7-8	3	15	0	13-14

Total Semester Hours Credit (SHC) in Program: 71

- **This is a Core course and cannot be substituted.**

Note: If COE 111 is selected, students should contact the Director of Cooperative Education regarding special cooperative education requirements for ADN students.

*** Students who select COE 110 may take the course prior to admission or corequisite with a NUR course. Students who select COE 111 must take this course in Summer Term or Fall Semester of the second year and in accordance with approval by the Director of Nursing Education.*

Note: Clinical rotations in NUR courses may be scheduled during weekdays, evenings or weekends.

Note: For students enrolled in the Associate Degree Nursing and Practical Nursing programs, numerical grades below 77 (C) in all required nursing and non-nursing courses are considered unsatisfactory attainment of course competencies.

Note: Class sessions for the evening option may require alternative day scheduling depending on class size.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Associate Degree Nursing

Completion Program for the Licensed Practical Nurse (A45100C)

The NUR curriculum for the Completion Program starts in the spring semester. Please note dates and deadlines for meeting admission requirements.

Listed below are the guidelines and ADN curriculum NUR course sequence for the licensed practical nurse who is entering in advanced placement standing.

The LPN admitted to this program must have the following requirements (#1-3) completed by September 1 prior to program entry:

1. Will document current unrestricted licensure as a LPN.
2. Will have met the current admission criteria required of the Associate Degree Nursing Program by September 1 prior to program entry. *Note: Students entering this program do not have to hold a current, non-restrictive North Carolina Nurse Aide I certification due to LPN licensure status.*
3. Will have satisfactorily completed (77% competency level) ENG 111, BIO 168, and PSY 150.
4. Will be required to meet current national passing standard in math and reading components for the HOBET test. Testing will occur during the fall semester prior to program entry.
5. Will be required to meet current national passing standard for the GAP test. Testing will occur during the fall semester prior to program entry.
6. Satisfactorily complete the lab assessment skills, inclusive of 100% attainment of the medication test (skills will be provided and appointment needed by the Lab Coordinator).
7. Will be certified in IV therapy and will provide evidence of current IV therapy administration (within the last 12 months). IV certification is available through RCCC (Continuing Education).
8. Will have had six months of full-time work experience within the last 12 months in the role of LPN. Verification of employment, role, and responsibilities are required by the LPN's employer. Same year graduates of the RCCC Practical Nursing program will be required to have three months of full-time work experience as a LPN.

Following satisfactory completion of NUR 189 and NUR 187, the ADN completion student will be integrated with the generic students in NUR 130, Summer Term, and follow through the remainder of the NUR course sequence with the exception that COE 111 is not an option for the Completion Program due to students' LPN status. **Students should be aware that NUR 187 and NUR 189 require a minimum of ten students to ensure course offerings.**

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Director of Nursing Education, Cathy Norris at 704-216-3701, or send an email to norrisc@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
-------	--	--	-------	-----	----------	--------	---------

First Year (Spring)

BIO	169	Anatomy and Physiology II	3	3	0	0	4
ENG	112	Argument-Based Research	3	0	0	0	3
• NUR	187	Transition Practicum	0	0	6	0	2
• NUR	189	Nursing Transition	1	3	0	0	2
PSY	241	Developmental Psychology	3	0	0	0	3
Total			10	6	6	0	14

First Year (Summer)

• NUR	130	Nursing III	4	3	6	0	7
Total			4	3	6	0	7

First Year (Fall)

BIO	275	Microbiology	3	3	0	0	4
• NUR	210	Nursing IV	5	3	12	0	10
* COE	110	World of Work	1	0	0	0	1
Total			9	6	12	0	15

Second Year (Spring)

• NUR	220	Nursing V	4	3	15	0	10
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			7	3	15	0	13

- This is a Core course and cannot be substituted.

Note: For students enrolled in the Associate Degree Nursing and Practical Nursing programs, numerical grades below 77 (C) in all required nursing and non-nursing courses are considered unsatisfactory attainment of course competencies.

Note: Class sessions for the evening option may require alternative day scheduling due to class size.

**COE 110 may be taken prior to admission or corequisite with NUR 130.*

Automotive Systems Technology

Associate in Applied Science Degree
(A60160)

The Automotive Systems Technology curriculum prepares individuals for employment as automotive service technicians. It provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field.

Classroom and lab experiences integrate technical and academic coursework. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/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 shops in the automotive service industry.

Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the Automotive Systems Technology Program Head or Student Services.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Wade Vernon at 704-216-3924, or send an email to vernonm@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
AUT	110	Introduction to Automotive Technology	2	2	0	0	3
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab	0	3	0	0	1
• AUT	161	Basic Automotive Electricity	4	3	0	0	5
Total			8	13	0	0	13
First Year (Spring)							
• AUT	141	Suspension & Steering Systems	2	3	0	0	3
AUT	141A	Suspension & Steering Lab	0	3	0	0	1
• AUT	151	Brake Systems	2	3	0	0	3
AUT	151A	Brake Systems Lab	0	3	0	0	1
• AUT	181	Engine Performance I	2	3	0	0	3
AUT	181A	Engine Performance I Lab	0	3	0	0	1
---	---	Social/Behavioral Sciences Elective(<i>p.162</i>)	3	0	0	0	3
---	---	COE Coursework*					
Total			9	18	0	0	15

Title	Class	Lab	Clinical	W Exp.	Credits
-------	-------	-----	----------	--------	---------

First Year (Summer)

• AUT	171	Automotive Climate Control	2	4	0	0	4
AUT	183	Engine Performance II	2	6	0	0	4
AUT	186	PC Skills for Auto Techs	2	2	0	0	3
---	---	COE Coursework*					
Total			6	12	0	0	11

Second Year (Fall)

AUT	163	Advanced Automotive Electricity	2	3	0	0	3
AUT	163A	Advanced Automotive Electricity Lab	0	3	0	0	1
AUT	231	Manual Trans/Axles/Drivetrains	2	3	0	0	3
AUT	231A	Manual Trans/Axles/Drivetrains Lab	0	3	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
MAT	115	Mathematical Models	2	2	0	0	3
---	---	COE Coursework*					
Total			9	14	0	0	14

Second Year (Spring)

AUT	221	Automatic Transmission/Transaxles	2	3	0	0	3
AUT	221A	Automatic Transmission/Transaxles Lab	0	3	0	0	1
COM	231	Public Speaking	3	0	0	0	3
PHY	110	Conceptual Physics	3	0	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	0	1
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	COE Coursework*					
Total			11	8	0	0	14

Second Year (Summer)

AUT	113	Automotive Servicing I	0	6	0	0	2
OR							
COE	112	Co-Op Work Experience I*	0	0	0	20	2
Total			0	6	0	0-20	2

Total Semester Hours Credit (SHC) in Program: 69

- **This is a Core course and cannot be substituted.**

*Students may take either AUT 113 or COE 112 in the second year summer term. If students choose to co-op throughout the course sequence instead of taking AUT 113 or COE 112, they may choose 2 SHC from the following COE coursework:

Title			Class	Lab	Clinical	W Exp.	Credits
COE 111	Co-Op Work Experience I		0	0	0	10	1
COE 121	Co-Op Work Experience II		0	0	0	10	1

Automotive Systems Technology

Diploma Program (D60160)

Title			Class	Lab	Clinical	W Exp.	Credits
Fall Semester							
AUT	110	Introduction to Automotive Technology	2	2	0	0	3
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab	0	3	0	0	1
• AUT	161	Basic Automotive Electricity	4	3	0	0	5
—	—	Social Science/Behavioral Science Elective	3	0	0	0	3
Total			11	11	0	0	15
Spring Semester							
• AUT	141	Suspension & Steering Systems	2	3	0	0	3
AUT	141A	Suspension & Steering Lab	0	3	0	0	1
• AUT	151	Brake Systems	2	3	0	0	3
AUT	151A	Brake Systems Lab	0	3	0	0	1
• AUT	181	Engine Performance I	2	3	0	0	3
AUT	181A	Engine Performance I Lab	0	3	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
Total			9	18	0	0	15
Summer Term							
AUT	171	Automotive Climate Control	2	4	0	0	4
• AUT	183	Engine Performance II	2	6	0	0	4
Total			4	10	0	0	8

Total Semester Hours Credit (SHC) in Program:

38

- This is a Core course and cannot be substituted.

Automotive Systems Technology

Certificate Programs
(C60160)

Courses			Credit Hours
Brakes Certificate (C60160BR)			
AUT	151	Brake Systems	3
AUT	151A	Brake Systems Lab	1
AUT	161	Basic Automotive Electricity	5
AUT	163	Advanced Automotive Electricity	3
AUT	163A	Advanced Automotive Electricity Lab	1
Total Semester Hours Credit:			13

Courses			Credit Hours
Electrical & Electronics Certificate (C60160EE)			
AUT	161	Basic Automotive Electricity	5
AUT	163	Advanced Automotive Electricity	3
AUT	163A	Advanced Automotive Electricity Lab	1
AUT	186	PC Skills for Auto Techs	3
Total Semester Hours Credit:			12
Engine Performance & Engine Repair Certificate (C60160EP)			
AUT	116	Engine Repair	3
AUT	116A	Engine Repair Lab	1
AUT	181	Engine Performance I	3
AUT	181A	Engine Performance I Lab	1
AUT	183	Engine Performance II	4
Total Semester Hours Credit:			12
Suspension & Steering Certificate (C60160SS)			
AUT	141	Suspension & Steering	3
AUT	141A	Suspension & Steering Lab	1
AUT	151	Brake Systems	3
AUT	151A	Brake Systems Lab	1
AUT	161	Basic Automotive Electricity	5
Total Semester Hours Credit:			13
Heating & Air Conditioning Certificate (C60160HA)			
AUT	110	Introduction to Automotive Technology	3
AUT	113	Automotive Servicing	2
OR			
COE	112	Co-op Work Experience I	2
AUT	161	Basic Automotive Electricity	5
AUT	171	Automotive Climate Control	4
Total Semester Hours Credit:			14
Automatic Transmission Certificate (C60160AT)			
AUT	110	Introduction to Automotive Technology	3
AUT	113	Automotive Servicing	2
OR			
COE	112	Co-op Work Experience I	2
AUT	221	Automatic Transmission/Transaxles	3
AUT	221A	Automatic Transmission/Transaxles Lab	1
AUT	161	Basic Automotive Electricity	5
Total Semester Hours Credit:			14
Manual Drive Train & Axles Certificate (C60160MD)			
AUT	110	Introduction to Automotive Technology	3
AUT	113	Automotive Servicing	2
OR			
COE	112	Co-op Work Experience I	2
AUT	161	Electrical Systems	5
AUT	231	Manual Trans/Axles/Drivetrains	3
AUT	231A	Manual Trans/Axles/Drivetrains Lab	1
Total Semester Hours Credit:			14

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Basic Law Enforcement Training

Certificate Program

(C55120)

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

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

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

CREDITS, HOURS, PREREQUISITES:

A. 19 Semester Hour Credits

B. Nine Lecture Hours; 30 Lab Hours Per Week; 624 Contact Hours

C. Prerequisites: None

Corequisites: None

D. Admission Requirements

In addition to regular Rowan-Cabarrus Community College (RCCC) admission requirements, the following apply to the Basic Law Enforcement Training (BLET) program.

1. **Each candidate must be sponsored or employed by a public law enforcement agency prior to enrollment and maintain that sponsorship/employment throughout the course.**
2. Each candidate must meet minimum standards for employment as established by the N.C. Criminal Justice Education and Training Standards Commission and/or the N.C. Sheriff's Education and Training Standards Commission.
3. Each candidate must provide true and accurate information concerning his or her background. Any information provided by the candidate that is determined to be false or inaccurate will be grounds to deny entry into the BLET program or to invoke sanctions under RCCC Procedure 7.16, Student Behavior Standards/Sanctions.
4. Each candidate must provide BLET officials with a criminal records check from the "Clerk of Courts Office" in each county/state of residence since he/she became eighteen (18) years old or submit evidence that this information is on file with the sponsoring/employing agency. This also applies to military records.
5. Each candidate sponsored through the N.C. Criminal Justice Education and Training Standards Commission must be **20** years of age as of the initial (first) day of class or have prior written authorization from the Director of the Criminal Justice Standards Division, if less than 20 years of age. (Candidates sponsored by the Sheriff's Education and Training Standards Commission must be 21 years of age.)
6. Each candidate by the time of **REGISTRATION** must provide the BLET School Director current medical examination report forms **F-1; F-2; F-2A; RCCC Exposure to Tear Gas, Mace, and Pepper Mace Release Form; and RCCC Medical Questionnaire/Release Form** properly completed by a physician licensed to practice medicine in North Carolina. Satisfactory health documented by a physician is mandatory for acceptance into the program.

7. Each candidate must provide evidence if he or she has been convicted of any crimes, civilian or military.
8. Be a high school graduate or have passed the General Education Development test. (Correspondence diplomas are not accepted.)
9. Possess a valid driver's license.
10. Be a citizen of the United States.

Note: Rowan-Cabarrus Community College has increased the hours in some topical areas of the Basic Law Enforcement Training course above the minimum required by the North Carolina Criminal Justice Training and Standards.

Prospective candidates should follow the below listed seven (7) step enrollment process.

STEPS TO ENROLLMENT:

Step One: Each candidate **MUST** obtain the BLET student information packet from the Law Enforcement Training Office on North Campus, Room 241. The candidate may pick up the packet in person or may call and leave his/her name, address, and phone number. A packet will then be placed in the mail. Candidates **DO NOT** complete RCCC Application for Admission at this time or take the placement test. **RCCC Application for Admission will be given to students in Step Five as indicated below.**

Step Two: Each candidate **MUST** obtain a Criminal Records Check from the "Clerk of Courts Office" in each County/State of residence since the candidate became eighteen (18) years old. This also applies to times during which the candidate was a member of the US Military (Military Records).

Step Three: Each candidate **MUST** take the Criminal Records Check along with the verification of sponsorship form to the sponsoring Law Enforcement Agency and request Sponsorship for Basic Law Enforcement Training.

Step Four: Each candidate **MUST** pre-register by bringing the signed Verification of Sponsorship Form along with a copy of the candidate's Criminal Records Check and High School Diploma/GED to the School Director for pre-registration. **Note:** The only person authorized to sign the Verification of Sponsorship form is the Agency head or his/her designee.

Step Five: **Each candidate MUST complete an RCCC APPLICATION FOR ADMISSION when submitting sponsorship/employment form.**

Step Six: Upon pre-registration, each candidate **MUST** obtain from the School Director the necessary forms to be completed and returned to the School Director's office **TWO WEEKS PRIOR TO THE FIRST DAY OF CLASS**. These forms include:

- Medical Screening Guidelines (F-1 & F-2)/Tear Gas form
- **Note:** Deliver the "Medical Screening Guidelines" to the examining physician. The Medical Screening Guidelines "Implementation Manual" is intended to provide the examining physician with information so that he/she may better determine the ability of an applicant, either for employment or training status as an entry level officer. The F-1(LE)/F-2(LE)/RCCC Tear Gas form is to be completed by a physician licensed to practice medicine in North Carolina. The candidate will need to sign and date the F-1. The physician

signs the F-1(LE)/F-2(LE)/RCCC Tear Gas form and must return them to Mr. Rummage, in the self-addressed stamped envelope provided in the front of the packet.

- Medical Questionnaire (Purple)
- BLET Candidate Data File Card (Blue for Day Course/Beige for Night Course)
- BLET Interview Questions (Yellow)
- Self-addressed stamped envelope

Note: The self-addressed envelope will be used to return the Medical Questionnaire, BLET Candidate Data File Card, and Interview Questions.

Step Seven: Each candidate **MUST** attend "Orientation" on the first Day/Night of the course and **MUST** bring the following:

- Textbooks (student manuals to be assembled in class)
- Be in uniform (Blue RCCC BLET shirt, tan khaki pants, black leather belt, black leather shoes, and blue or black socks).
- \$16.00 Student Activity Fee (which includes Student Accident Insurance) and \$16.00 Technology Fee.
- This totals \$32.00. **Please have the correct cash or check to be written to Rowan-Cabarrus Community College. A billing letter from the employing agency may also be used.**

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Director, Law Enforcement Training Spencer Rummage at 704-216-3738, or send an email to rummages@rowancabarrus.edu.

		Title	Class	Lab	Clinical	W Exp.	Credits
CJC	100	Basic Law Enforcement Training	9	30	0	0	19

Total Semester Hours Credit (SHC) in Program: 19

BLET Transfer Credit:

Students successfully completing Basic Law Enforcement Training at a school accredited by the N.C. Criminal Justice Training and Standards Commission will receive ten semester hours' credit toward their Associate in Applied Science degree in Criminal Justice Technology at Rowan-Cabarrus Community College. These students must have successfully completed Basic Law Enforcement Training since 1985. RCCC only ensures acceptance of these transfer credits in our Associate in Applied Science - Criminal Justice Technology degree program. These transfer credits may or may not be accepted by a four-year institution. Students are responsible for checking the degree requirements of the four-year institution to which they intend to transfer.

Biotechnology

Associate In Applied Science Degree
(A20100)

The Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological and chemical technology.

Course work emphasizes biology, chemistry, mathematics and technical communications. The curriculum objectives are designed to prepare graduates to serve in three distinct capacities: research assistant to a biologist or chemist, laboratory technician/instrumentation technician, and quality control/quality assurance technician.

Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales and customer service.

A Bioprocess Manufacturing Option is available by taking a slightly different sequence of courses during second year spring and second year summer (see course sequence below).

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact the Biotechnology Department at 704-216-7200, or send an email to atkinsonj@rowancabarrus.edu.

The following is a suggested program of study for completing this program in six semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time).

		Title	Class	Lab	Clinical	W	Exp.	Credits
First Year (Fall)								
	ACA 115	Success and Study Skills	0	2	0	0		1
•	BIO 111	General Biology I	3	3	0	0		4
•	CHM 131	Introduction to Chemistry	3	0	0	0		3
AND								
•	CHM 131A	Introduction to Chemistry Lab	0	3	0	0		1
OR								
•	CHM 151	General Chemistry I	3	3	0	0		4
	ENG 111	Expository Writing	3	0	0	0		3
	MAT 115	Mathematical Models	2	2	0	0		3
OR								
	MAT 161	College Algebra	3	0	0	0		3
OR								
	MAT 175	Precalculus	4	0	0	0		4
Total			11-13	8-10	0	0		15-16
First Year (Spring)								
•	BIO 112	General Biology II	3	3	0	0		4
•	CHM 132	Organic and Biochemistry	3	3	0	0		4
•	BTC 181	Basic Lab Techniques	3	3	0	0		4
	ENG 112	Argument-Based Research	3	0	0	0		3
OR								
	ENG 114	Professional Research & Reporting	3	0	0	0		3
Total			12	9	0	0		15
First Year (Summer)								
	BIO 275	Microbiology	3	3	0	0		4

Title			Class	Lab	Clinical	W Exp.	Credits
—	—	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			6	3	0	0	7

Second Year (Fall)

BIO	250	Genetics	3	3	0	0	4
BTC	285	Cell Culture	2	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
MAT	151	Statistics	3	0	0	0	3
MAT	151A	Statistics Lab	0	2	0	0	1
Total			10	10	0	0	14

Second Year (Spring)

BTC	270	Recombinant DNA Technology	3	3	0	0	4
PSY	118	Interpersonal Psychology	3	0	0	0	3
OR							
PSY	150	General Psychology	3	0	0	0	3
Select two of the following courses:							
BTC	281	Bioprocess Techniques	2	6	0	0	4
BTC	286	Immunological Techniques	3	3	0	0	4
CHM	263	Analytical Chemistry	3	4	0	0	5
Total			11-12	10-13	0	0	15-16

Second Year (Summer)

BTC	288	Biotech Lab Experience	0	6	0	0	2
OR							
COE	111	Co-op Work Experience I	0	0	0	10	1
OR							
COE	112	Co-op Work Experience II	0	0	0	20	2
Total			0	0-6	0	0-20	1-2

Total Semester Hours Credit (SHC) in Program: 67-70

Students wishing to take the Bioprocess Manufacturing Option should select the following sequence for the second-year spring and summer semesters:

Second Year (Spring)

BTC	270	Recombinant DNA Technology	3	3	0	0	4
PSY	118	Interpersonal Psychology	3	0	0	0	3
OR							
PSY	150	General Psychology	3	0	0	0	3
BTC	281	Bioprocess Techniques	2	6	0	0	4
BTC	282	Biotech Fermentation I	2	6	0	0	4
Total			10	15	0	0	15

Second Year (Summer)

BTC	283	Biotech Fermentation II	2	6	0	0	4
Total			2	6	0	0	4

Total Semester Hours Credit (SHC) in Program: 70-72
(BIOPROCESS MANUFACTURING OPTION)

- This is a Core course and cannot be substituted.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Biotechnology

Cooperative Transfer Program

Program Offered in Cooperation with Forsyth Technical Community College
(A20100FS)

The Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological and chemical technology.

Course work emphasizes biology, chemistry, mathematics and technical communications. The curriculum objectives are designed to prepare graduates to serve in three distinct capacities: research assistant to a biologist or chemist, laboratory technician/instrumentation technician, and quality control/quality assurance technician.

Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales and customer service.

RCCC has a collaboration agreement for this program with Forsyth Technical Community College (Forsyth Tech). Under this agreement, students are able to take first-year courses at RCCC.

The Associate in Applied Science Degree in Biotechnology will be awarded by Forsyth Tech.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact the Biotechnology Department at 704-216-7200, or send an email to atkinsonj@rowancabarrus.edu. Additional information may also be obtained from Forsyth Tech's website (www.forsythtech.edu) or by calling the Forsyth Tech Biotechnology Department Chair at 336-734-7575.

Listed below are courses that can be taken at RCCC.

	Title	Class	Lab	Clinical	W Exp.	Credits
BIO 111	General Biology I	3	3	0	0	4
BIO 112	General Biology II	3	3	0	0	4
CHM 131	Intro to Chemistry	3	0	0	0	3
CHM 131A	Intro to Chemistry Lab	0	3	0	0	1
	OR					
CHM 151	General Chemistry I	3	3	0	0	4
CHM 132	Organic and Biochemistry	3	3	0	0	4
CIS 110	Intro to Computers	2	2	0	0	3
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Expository Writing	3	0	0	0	3
ENG 112	Argument-Based Research	3	0	0	0	3
	OR					
ENG 114	Prof. Research & Reporting	3	0	0	0	3
MAT 115	Mathematical Models	2	2	0	0	3
	OR					
MAT 161	College Algebra	3	0	0	0	3
MAT 175	Precalculus	4	0	0	0	4
MAT 151	Statistics I	3	0	0	0	3
MAT 151A	Statistics I Lab	0	2	0	0	1
PSY 118	Interpersonal Psychology	3	0	0	0	3
	OR					
PSY 150	General Psychology	3	0	0	0	3

		Title	Class	Lab	Clinical	W Exp.	Credits
HUM	110	Technology and Society	3	0	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Biotechnology

Cooperative Transfer Program
Program Offered in Cooperation with Gaston College
(A20100GS)

The Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological and chemical technology.

Course work emphasizes biology, chemistry, mathematics and technical communications. The curriculum objectives are designed to prepare graduates to serve in three distinct capacities: research assistant to a biologist or chemist, laboratory technician/instrumentation technician, and quality control/quality assurance technician.

Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales and customer service.

RCCC has a collaboration agreement for this program with Gaston College. Under this agreement, students may take required courses at RCCC, but must earn at least 16 SHC of the required 64-66 SHC at Gaston College.

The Associate in Applied Science Degree in Biotechnology will be awarded by Gaston College.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact the Biotechnology Department at 704-216-7200, or send an email to atkinsonj@rowancabarrus.edu or call the Gaston College Science Department Chair at 704-922-6458.

Students may take up to 48 SHC from the following RCCC courses.

		Title	Class	Lab	Clinical	W Exp.	Credits
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
BIO	250	Genetics	3	3	0	0	4
BIO	275	Microbiology	3	3	0	0	4

		Title	Class	Lab	Clinical	W Exp.	Credits
BTC	181	Basic Lab Techniques	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
		AND					
CHM	131A	Introduction to Chemistry Lab	0	3	0	0	1
		OR					
CHM	151	General Chemistry I	3	3	0	0	4
CHM	132	Organic and Biochemistry	3	3	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
		OR					
CIS	115	Introduction to Programming & Logic	2	3	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
ENG	112	Argument-Based Research	3	0	0	0	3
		OR					
ENG	113	Literature-Based Research	3	0	0	0	3
		OR					
ENG	114	Professional Research & Reporting	3	0	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics I Lab	0	2	0	0	1
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Social Behavioral Sciences Elective (<i>p.162</i>)	3	0	0	0	3

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Business Administration

Associate In Applied Science Degree (A25120)

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

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Garland Fulp at 704-216-3770 or send an email to fulpg@rowancabarrus.edu.

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
BUS	110	Introduction to Business	3	0	0	0	3
BUS	121	Business Mathematics	2	2	0	0	3
• CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
OR							
MAT	161	College Algebra	3	0	0	0	3
OR							
MAT	175	Precalculus	4	0	0	0	4
Total			13-14	6	0	0	16-17

First Year (Spring)

• BUS	115	Business Law I	3	0	0	0	3
• ECO	151	Survey of Economics	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Elective*	3	0	0	0	3
Total			15	0	0	0	15

Title	Class	Lab	Clinical	W Exp.	Credits
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Second Year (Fall)

• ACC	120	Principles of Financial Accounting	3	2	0	0	4
• BUS	137	Principles of Management	3	0	0	0	3
	BUS	260	Business Communication	3	0	0	3
• MKT	120	Principles of Marketing	3	0	0	0	3
---	---	Social/Behavioral Science Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Elective*	3	0	0	0	3
Total			18	2	0	0	19

Second Year (Spring)

ACC	121	Principles of Managerial Accounting	3	2	0	0	4
BUS	225	Business Finance	2	2	0	0	3
CTS	130	Spreadsheets	2	2	0	0	3
---	---	Major Elective*	7	0	0	0	7
Total			14	6	0	0	17

Total Semester Hours Credit (SHC) in Program: 67-68

- **This is a Core course and cannot be substituted.**

***Major Electives:**

Select 13 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

Title			Class	Lab	Clinical	W Exp.	Credits
BUS	153	Human Resource Management	3	0	0	0	3
BUS	217	Employment Law & Regulations	3	0	0	0	3
BUS	230	Small Business Management	3	0	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	253	Leadership & Management Skills	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
INT	110	International Business	3	0	0	0	3
MKT	123	Fundamentals of Selling	3	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	3
OST	136	Word Processing	1	2	0	0	2
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

Business Administration

Diploma Program
(D25120)

Courses		Credit Hours
• ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting	4
BUS 110	Introduction to Business	3
• BUS 115	Business Law I	3
BUS 121	Business Mathematics	3
• BUS 137	Principles of Management	3
BUS 260	Business Communication	3
• CIS 110	Introduction to Computers	3
• ECO 151	Survey of Economics	3
ENG 111	Expository Writing	3
• MKT 120	Principles of Marketing	3
--- ---	Social/Behavioral Science Elective	3

Total Semester Hours Credit: 38

- This is a Core course and cannot be substituted.

Business Administration

Certificate Programs
(C25120)

Courses		Credit Hours
Business Accounting Certificate (C25120BA)		
ACC 120	Principles of Financial Accounting	4
BUS 121	Business Mathematics	3
BUS 225	Business Finance	3
BUS 260	Business Communication	3
Total Semester Hours Credit:		13

Small Business Management Certificate (C25120SB)

BUS 137	Principles of Management	3
BUS 153	Human Resource Management	3
BUS 230	Small Business Management	3
BUS 240	Business Ethics	3
BUS 253	Leadership & Management Skills	3
Total Semester Hours Credit:		15

Business Management Certificate (C25120BM)

BUS 115	Business Law I	3
BUS 137	Principles of Management	3
BUS 153	Human Resource Management	3
BUS 240	Business Ethics	3
BUS 253	Leadership & Management Skills	3
Total Semester Hours Credit:		15

Courses		Credit Hours
General Business Certificate (C25120GB)		
BUS 110	Introduction to Business	3
BUS 121	Business Mathematics	3
BUS 137	Principles of Management	3
BUS 260	Business Communication	3
CIS 110	Introduction to Computers	3
Total Semester Hours Credit:		15
Business Computing Certificate (C25120BC)		
BUS 110	Introduction to Business	3
BUS 260	Business Communication	3
CIS 110	Introduction to Computers	3
CTS 130	Spreadsheet	3
OST 136	Word Processing	2
Total Semester Hours Credit:		14

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Business Administration - Marketing and Retailing

Associate In Applied Science Degree
(A2512F)

Marketing and Retailing is a concentration under the curriculum title of Business Administration. This curriculum is designed to provide students with fundamental skills in marketing and retailing.

Course work includes marketing, retailing, merchandising, selling, advertising, computer technology and management.

Graduates should qualify for marketing positions within manufacturing, retailing and service organizations.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Garland Fulp at 704-216-3770 or send an email to fulpg@rowancabarrus.edu.

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

Title	Class	Lab	Clinical	W Exp.	Credits
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First Year (Fall)

ACA	115	Success and Study Skills	0	2	0	0	1
• BUS	115	Business Law I	3	0	0	0	3
BUS	121	Business Mathematics	2	2	0	0	3
• CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
• MKT	120	Principles of Marketing	3	0	0	0	3
---	---	Major Elective*	0-3	0-2	0	0-30	3
Total			13-16	6-8	0	0-30	19

First Year (Spring)

• ECO	151	Survey of Economics	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
• MKT	122	Visual Merchandising	3	0	0	0	3
• MKT	123	Fundamentals of Selling	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
OR							
MAT	161	College Algebra	3	0	0	0	3
OR							
MAT	175	Precalculus	4	0	0	0	4
Total			15-16	0	0	0	15-16

Second Year (Fall)

• ACC	120	Principles of Financial Accounting	3	2	0	0	4
• BUS	137	Principles of Management	3	0	0	0	3
BUS	260	Business Communication	3	0	0	0	3
• MKT	220	Advertising & Sales Promotion	3	0	0	0	3
---	---	Social/Behavioral Sciences Elective (<i>p.162</i>)	3	0	0	0	3
Total			15	2	0	0	16

Second Year (Spring)

• MKT	225	Marketing Research	3	0	0	0	3
• MKT	226	Retail Applications	3	0	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Electives*	0-3	0-2	0	0-30	10
Total			9-12	0-2	0	0-30	19

Total Semester Hours Credit (SHC) in Program:**69-70**

- This is a Core course and cannot be substituted.

*Major Electives:

Select 13 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses.

Title			Class	Lab	Clinical	W Exp.	Credits
ACC 121	Principles of Managerial Accounting	3	2	0	0	0	4
BUS 110	Introduction to Business	3	0	0	0	0	3
BUS 230	Small Business Management	3	0	0	0	0	3
BUS 240	Business Ethics	3	0	0	0	0	3
BUS 253	Leadership and Management Skills	3	0	0	0	0	3
BUS 280	REAL Small Business	4	0	0	0	0	4
CTS 130	Spreadsheet	2	2	0	0	0	3
INT 110	International Business	3	0	0	0	0	3
MKT 125	Buying & Merchandising	3	0	0	0	0	3
MKT 221	Consumer Behavior	3	0	0	0	0	3
COE 110	World of Work	1	0	0	0	0	1
COE 111	Co-op Work Experience I	0	0	0	10	0	1
COE 112	Co-op Work Experience I	0	0	0	20	0	2
COE 113	Co-op Work Experience I	0	0	0	30	0	3
COE 121	Co-op Work Experience II	0	0	0	10	0	1
COE 122	Co-op Work Experience II	0	0	0	20	0	2
COE 131	Co-op Work Experience III	0	0	0	10	0	1

Business Administration -
Marketing & Retailing

Diploma Program
(D2512F)

Courses		Credit Hours
• ACC 120	Principles of Financial Accounting	4
• BUS 115	Business Law I	3
• BUS 121	Business Mathematics	3
• BUS 137	Principles of Management	3
• CIS 110	Introduction to Computers	3
• ECO 151	Survey of Economics	3
• ENG 111	Expository Writing	3
• MKT 120	Principles of Marketing	3
• MKT 122	Visual Merchandising	3
• MKT 123	Fundamentals of Selling	3
• MKT 220	Advertising & Sales Promotion	3
• MKT 225	Marketing Research	3
	Social/Behavioral Sciences Elective	3

Total Semester Hours Credit:
40

- This is a Core course and cannot be substituted.

Business Administration - Marketing & Retailing

Certificate Programs
(C2512F)

Courses		Credit Hours
Marketing & Sales Certificate (C2512FMS)		
MKT 120	Principles of Marketing	3
MKT 122	Visual Merchandising	3
MKT 123	Fundamentals of Selling	3
MKT 220	Advertising & Sales Promotions	3
MKT 225	Marketing Research	3
Total Semester Hours Credit:		15
Marketing Management Certificate (C2512FMM)		
ACC 120	Principles of Financial Accounting	4
BUS 137	Principles of Management	3
BUS 253	Leadership and Management Skills	3
MKT 120	Principles of Marketing	3
Total Semester Hours Credit:		13
General Marketing Certificate (C2512FGM)		
CIS 110	Introduction to Computers	3
MKT 120	Principles of Marketing	3
MKT 122	Visual Merchandising	3
MKT 123	Fundamentals of Selling	3
MKT 220	Advertising and Sales Promotion	3
Total Semester Hours Credit:		15

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Computer Information Technology

Associate In Applied Science Degree
(A25260)

The Computer Information Technology curriculum is designed to prepare graduates for employment with organizations that use computers to process, manage and communicate information. This is a flexible curriculum that can be customized to meet community information systems needs.

Course work will develop a student’s ability to communicate complex technical issues related to computer hardware, software and networks in a manner that computer users can understand. Classes cover computer operations and terminology, operating systems, database, networking, security and technical support.

Graduates should qualify for employment in entry-level positions with businesses, educational systems and governmental agencies which rely on computer systems to manage information. Graduates should be prepared to sit for industry-recognized certification exams.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Anne Curlee at 704-216-3758, or send an email to curleea@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	115	Mathematical Models	2	2	0	0	3
OR							
MAT	161	College Algebra	3	0	0	0	3
OR							
MAT	175	Precalculus	4	0	0	0	4
• NOS	110	Operating System Concepts	2	3	0	0	3
---	---	Social/Behavioral Science Elective(<i>p.162</i>)	3	0	0	0	3
Total			12-14	7-9	0	0	16-17
First Year (Spring)							
• CTS	120	Hardware/Software Support	2	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	0	3
OR							
ENG	114	Professional Research & Reporting	3	0	0	0	3
• NET	110	Networking Concepts	2	2	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Elective*	1-3	0-3	0	0-40	3
Total			11-13	5-8	0	0-40	15

Title			Class	Lab	Clinical	W Exp.	Credits
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First Year (Summer)

• BUS	110	Introduction to Business	3	0	0	0	3
CTS	135	Integrated Software Introduction	2	4	0	0	4
Total			5	4	0	0	7

Second Year (Fall)

• CIS	115	Intro. to Programming and Logic	2	3	0	0	3
CTS	240	Project Management	2	2	0	0	3
• CTS	285	Systems Analysis and Design	3	0	0	0	3
• DBA	110	Database Concepts	2	3	0	0	3
• SEC	110	Security Concepts	3	0	0	0	3
Total			12	8	0	0	15

Second Year (Spring)

• CTS	289	System Support Project	1	4	0	0	3
DBA	115	Database Applications	2	2	0	0	3
• NOS	130	Windows Single User	2	2	0	0	3
• NOS	230	Windows Administration I	2	2	0	0	3
---	---	Major Elective*	1-3	0-3	0	0-40	3
Total			8-10	10-13	0	0-40	15

Total Semester Hours Credit (SHC) in Program:**68-69**

- This is a Core course and cannot be substituted.

***Major Electives:**

Select 6 semester hour credits from the following courses. This may include up to 4 SHC from COE course/combination of courses.

Title			Class	Lab	Clinical	W Exp.	Credits
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	211	Co-op Work Experience IV	0	0	0	10	1
CSC	139	Visual BASIC Programming	2	3	0	0	3
CTS	125	Presentation Graphics	2	2	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3
CTS	220	Advanced Hardware/Software Support	2	3	0	0	3
CTS	230	Advanced Spreadsheet	2	2	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
NOS	220	Linux/UNIX Administration I	2	2	0	0	3

Title			Class	Lab	Clinical	W Exp.	Credits
OST	136	Word Processing	1	2	0	0	2
SPA	111	Elementary Spanish I	3	0	0	0	3
WEB	111	Introduction to Web Graphics	2	2	0	0	3

Computer Information Technology

Diploma Program
(D25260)

Courses			Credit Hours
• CIS	110	Introduction to Computers	3
• CIS	115	Introduction to Programming & Logic	3
• CTS	120	Hardware/Software Support	3
CTS	135	Integrated Software	4
• DBA	110	Database Concepts	3
ENG	111	Expository Writing	3
MAT	115	Mathematical Models	3
OR			
MAT	161	College Algebra	3
OR			
MAT	175	Precalculus	4
• NET	110	Networking Concepts	3
• NOS	110	Operating System Concepts	3
---	---	Social/Behavioral Science Elective (<i>p.162</i>)	3
Select 9 semester hours from the following:			
BUS	110	Introduction to Business	3
CTS	240	Project Management	3
CTS	285	System Analysis & Design	3
DBA	115	Database Applications	3
NOS	130	Windows Single User	3
NOS	230	Windows Administration I	3
SEC	110	Security Concepts	3
Total Semester Hours Credit			40-41

- **This is a Core course.** A diploma offered for this program must have a minimum of 12 SHC extracted from the Core courses of the A.A.S. degree. 12 SHC of these courses cannot be substituted.

Computer Information Technology

Certificate Program (C25260)

Courses	Credit Hours
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Computer Information Technology Certificate (C25260CI)

CIS	110	Introduction to Computers	3
CTS	120	Hardware/Software Support	3
CTS	135	Integrated Software	4
DBA	110	Database Concepts	3
NOS	110	Operating System Concepts	3

Total Semester Hours Credit: 16

Operating Systems Certificate (C25260OS)

CIS	110	Introduction to Computers	3
NOS	110	Operating System Concepts	3
NOS	120	Linux/UNIX Single User	3
NOS	130	Windows Single User	3
NOS	230	Windows Administration I	3

Total Semester Hours Credit: 15

Computer Information Technology Office Support Certificate (C25260SU)

BUS	110	Introduction to Business	3
CIS	110	Introduction to Computers	3
CTS	125	Presentation Graphics	3
CTS	135	Integrated Software Introduction	4
CTS	240	Project Management	3

Total Semester Hours Credit: 16

Computer Information Technology Foundations Certificate (C25260FO)

CIS	110	Introduction to Computers	3
CIS	115	Introduction to Programming & Logic	3
DBA	110	Database Concepts	3
NET	110	Networking Concepts	3
NOS	110	Operating System Concepts	3
SEC	110	Security Concepts	3

Total Semester Hours Credit: 18

Spreadsheet Management Certificate (C25260SM)

CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	3
CTS	135	Integrated Software	4
CTS	230	Advanced Spreadsheet	3

Total Semester Hours Credit: 13

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Computer Programming

Associate In Applied Science Degree
(A25130)

The Computer Programming curriculum prepares individuals for employment as computer programmers and related positions through study and applications in computer concepts, logic, programming procedures, languages, generators, operating systems, networking, data management, and business operations.

Students will solve business computer problems through programming techniques and procedures, using appropriate languages and software. The primary emphasis of the curriculum is hands-on training in programming and related computer areas that provide the ability to adapt as systems evolve.

Graduates should qualify for employment in business, industry, and government organizations as programmers, programmer trainees, programmer/analysts, computer operators, systems technicians, or database specialists.

For additional information regarding this program, contact Program Head Lisa Garneau at 704-216-3757 or send an email to garneau@rowancabarrus.edu.

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

		Title	Class	Lab	Clinical	W	Exp.	Credits
First Year (Fall)								
	ACA 115	Success and Study Skills	0	2	0	0		1
•	CIS 110	Introduction to Computers	2	2	0	0		3
•	CIS 115	Introduction to Programming and Logic	2	3	0	0		3
•	CSC 139	Visual BASIC Programming	2	3	0	0		3
•	NOS 110	Operating System Concepts	2	3	0	0		3
—	—	Social/Behavioral Science Elective(<i>p.162</i>)	3	0	0	0		3
Total			11	13	0	0		16
First Year (Spring)								
•	CSC 134	C++ Programming	2	3	0	0		3
•	CSC 239	Advanced Visual BASIC Programming	2	3	0	0		3
	MAT 115	Mathematical Models	3	0	0	0		3
	OR							
	MAT 161	College Algebra	3	0	0	0		3
	OR							
	MAT 175	Precalculus	4	0	0	0		4
•	NET 110	Networking Concepts	2	2	0	0		3
•	SEC 110	Security Concepts	3	0	0	0		3
Total			12-13	8	0	0		15-16

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Summer)							
• BUS	110	Introduction to Business	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
—	—	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			9	0	0	0	9

Second Year (Fall)

• CSC	234	Advanced C++ Programming	2	3	0	0	3
• CTS	285	Systems Analysis & Design	3	0	0	0	3
• DBA	110	Database Concepts	2	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	0	3
OR							
ENG	114	Professional Research & Reporting	3	0	0	0	3
OR							
COM	231	Public Speaking	3	0	0	0	3
• NOS	120	Linux/UNIX Single User	2	2	0	0	3
OR							
• NOS	130	Windows Single User	2	2	0	0	3
—	—	CSC Major Elective*	2	3	0	0	3
Total			14	11	0	0	18

Second Year (Spring)

• CSC	289	Programming Capstone Project	1	4	0	0	3
—	—	CSC Major Elective*	2	3	0	0	3
—	—	CSC Major Elective*	2	3	0	0	3
—	—	Other Major Elective*	Varies	Varies	0	Varies	6
Total			Varies	Varies	0	Varies	15

Total Semester Hours Credit (SHC) in Program:**73-74**

- This is a Core course and cannot be substituted.

***CSC Major Electives:**

Select 9 semester hour credits from the following courses.

Title			Class	Lab	Clinical	W Exp.	Credits
CSC	135	COBOL Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	153	C# Programming	2	3	0	0	3
CSC	235	Advanced COBOL Programming	2	3	0	0	3
CSC	251	Advanced JAVA Programming	2	3	0	0	3

***Other Major Electives:**

Select 6 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses.

ACC	120	Principles of Financial Accounting	3	2	0	0	4
CTS	120	Hardware/Software Support	2	3	0	0	3

Title			Class	Lab	Clinical	W Exp.	Credits
CTS	130	Spreadsheet	2	2	0	0	3
DBA	115	Database Applications	2	2	0	0	3
OST	131	Keyboarding	1	2	0	0	2
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	131	Co-op Work Experience III	0	0	0	10	1

Computer Programming

Diploma Program

(D25130)

Courses			Credit Hours
• CIS	110	Introduction to Computers	3
• CIS	115	Introduction to Programming & Logic	3
• CSC	134	C++ Programming	3
• CSC	139	Visual BASIC Programming	3
• CSC	234	Advanced C++ Programming	3
• CSC	239	Advanced Visual BASIC Programming	3
ENG	111	Expository Writing	3
MAT	115	Mathematical Models	3
OR			
MAT	161	College Algebra	3
OR			
MAT	175	Precalculus	4
• NET	110	Networking Concepts	3
• NOS	110	Operating Systems Concepts	3

Select 9 SHC from the following:

CSC	135	COBOL Programming	3
CSC	151	JAVA Programming	3
CSC	153	C# Programming	3
CSC	235	Advanced COBOL Programming	3
CSC	251	Advanced JAVA Programming	3

Total Semester Hours Credit:

39-43

A diploma offered for this program must have a minimum of 12 SHC extracted from the Core courses of the A.A.S. degree.

Computer Programming

Certificate Programs (C25130)

Courses	Credit Hours
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COBOL Language Certificate (C25130CO)

Fall Semester

CIS	115	Introduction to Programming & Logic	3
CSC	135	COBOL Programming	3

Spring Semester

CSC	153	C# Programming	3
CSC	235	Advanced COBOL Programming	3

Total Semester Hours Credit: 12

Visual Language Certificate (C25130VL)

Fall Semester

CIS	115	Introduction to Programming & Logic	3
CSC	139	Visual BASIC Programming	3

Spring Semester

CSC	153	C# Programming	3
CSC	239	Advanced Visual BASIC Programming	3

Total Semester Hours Credit: 12

C-Based Language Certificate (C25130CL)

Spring Semester

CIS	115	Introduction to Programming & Logic	3
CSC	134	C++ Programming	3
CSC	153	C# Programming	3

Fall Semester

CSC	151	JAVA Programming	3
CSC	234	Advanced C++ Programming	3

Total Semester Hours Credit: 15

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Construction Management Technology

Associate In Applied Science Degree
(A35190)

This curriculum is designed to prepare individuals for careers in the construction management field. Such positions may include project manager, superintendent, estimator, or foreman.

Course work includes safety, planning, scheduling, cost control, productivity, human relations, estimating, and building codes. Students will also gain proficiency in specific construction-related skills.

Graduates should qualify for entry-level positions in the field of construction management.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Franklin Merrell at 704-216-3920, or send an email to merrellf@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• CIS	110	Introduction to Computers	2	2	0	0	3
• CMT	210	Professional Construction Supervision	3	0	0	0	3
• CMT	212	Total Safety Performance	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
Total			13	6	0	0	16
First Year (Spring)							
• ACC	120	Principles of Financial Accounting	3	2	0	0	4
• BPR	130	Blueprint Reading/Construction	1	2	0	0	2
• CST	241	Planning/Estimating I	2	2	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
---	---	Technical Elective*	2-5	2-6	0	0	3-5
Total			11-14	8-12	0	0	15-17
First Year (Summer)							
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Technical Elective*	1-3	2-5	0	0	2-3
Total			4-6	2-5	0	0	5-6
Second Year (Fall)							
• CMT	214	Planning and Scheduling	3	0	0	0	3
• CMT	216	Cost and Productivity	3	0	0	0	3
• SPA	120	Spanish for the Workplace	3	0	0	0	3
COE	112	Co-op Work Experience I	0	0	0	20	2
---	---	Social/Behavioral Science Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Technical Elective*	2-5	2-6	0	0	3-5
Total			14-17	2-6	0	20	17-19

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Spring)							
• CIV	230	Construction Estimating	2	3	0	0	3
• CMT	218	Human Relations Issues	3	0	0	0	3
COE	122	Co-op Work Experience II	0	0	0	20	2
---	---	Technical Elective*	7-10	2-6	0	0	7-10
Total			12-15	5-9	0	20	15-18

Total Semester Hours Credit (SHC) in Program:**68**

- This is a Core course and cannot be substituted.

***Technical Electives:**

Select 8 or 9 SHC from one area of specialization, and an additional 6 or 7 SHC from another area of specialization, for a total of 15 SHC of technical electives. Students who anticipate transfer to a four-year university may select more than 9 hours for the Civil Engineering Technology Option and should take MAT 122 in addition to the 68 SHC required for graduation.

Title			Class	Lab	Clinical	W Exp.	Credits
Air Conditioning, Heating and Refrigeration:							
AHR	110	Introduction to Refrigeration	2	6	0	0	5
AHR	111	HVACR Electricity	2	2	0	0	3
AHR	112	Heating Technology	2	4	0	0	4
AHR	113	Comfort Cooling	2	4	0	0	4
AHR	130	HVAC Controls	2	2	0	0	3

Electrical:

ELC	113	Basic Wiring I	2	6	0	0	4
ELC	117	Motors and Controls	2	6	0	0	4
ELC	118	National Electrical Code	1	2	0	0	2
ELC	125	Diagrams and Schematics	1	2	0	0	2
ELC	138	DC Circuit Analysis	2	3	0	0	3

Welding:

WLD	112	Basic Welding Processes	1	3	0	0	2
WLD	115	SMAW (Stick) Plate	2	9	0	0	5
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	0	4
WLD	141	Symbols & Specifications	2	2	0	0	3

Civil Engineering Technology:

CIV	110	Statics/Strength of Materials	2	6	0	0	4
CIV	210	Engineering Materials	1	3	0	0	2
CIV	240	Project Management	2	3	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
EGR	115	Introduction to Technology	2	3	0	0	3
SRV	110	Surveying I	2	6	0	0	4

Construction Management Technology

Diploma Program (D35190)

Courses			Credit Hours
• ACC	120	Principles of Financial Accounting	4
• BPR	130	Blueprint Reading/Construction	2
• CIS	110	Introduction to Computers	3
• CIV	230	Construction Estimating	3
• CMT	210	Professional Construction Supervision	3
• CMT	212	Total Safety Performance	3
• CMT	214	Planning and Scheduling	3
• CMT	216	Cost and Productivity	3
• CMT	218	Human Relations Issues	3
• CST	241	Planning/Estimating I	3
ENG	102	Applied Communications II (or ENG 111 Expository Writing)	3
MAT	121	Algebra/Trigonometry I	3
• SPA	120	Spanish for the Workplace	3

Total Semester Hours Credit: 39

• This is a Core course and cannot be substituted.

Construction Management Technology

Certificate Programs (C35190)

Courses			Credit Hours
Basic Certificate (C35190BA)			
BPR	130	Blueprint Reading/Construction	2
CIS	110	Introduction to Computers	3
CMT	210	Professional Construction Supervision	3
CMT	212	Total Safety Performance	3
SPA	120	Spanish for the Workplace	3
Total Semester Hours Credit:			14
Intermediate Certificate (C35190IN)			
CMT	214	Planning and Scheduling	3
CMT	216	Costs and Productivity	3
CMT	218	Human Relations Issues	3
CST	241	Planning/Estimating I	3
Total Semester Hours Credit:			12
Project Supervision Certificate (C35190PS)			
CMT	210	Professional Construction Supervision	3
CMT	212	Total Safety Performance	3
CMT	214	Planning and Scheduling	3
CMT	216	Costs and Productivity	3
CMT	218	Human Relations Issues	3
COE	112	Co-op Work Experience I	2
Total Semester Hours Credit:			17

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Cosmetology

Associate in Applied Science Degree (A55140)

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

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

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

Program entrance is based on space availability (first come, first serve) on the day of registration. If more than the number of students that can be accepted into the program come at the same time, they will be chosen by application dates obtained by Student Services on the day of registration.

A high school diploma or GED is required, or student must be currently enrolled in a high school or GED program.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Wanda Pressley-Altman at 704-216-3928, or send an email to pressleyw@rowancabarrus.edu.

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
• COS	111	Cosmetology Concepts I	4	0	0	0	4
• COS	112	Salon I	0	24	0	0	8
ENG	111	Expository Writing	3	0	0	0	3
Total			7	24	0	0	15
First Year (Spring)							
• COS	113	Cosmetology Concepts II	4	0	0	0	4
• COS	114	Salon II	0	24	0	0	8
SOC	210	Introduction to Sociology	3	0	0	0	3
Total			7	24	0	0	15
First Year (Summer)							
• COS	115	Cosmetology Concepts III	4	0	0	0	4
• COS	116	Salon III	0	12	0	0	4
MAT	140	Survey of Mathematics	3	0	0	0	3
OR							
BIO	140	Environmental Biology	3	0	0	0	3
Total			7	12	0	0	11

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Fall)							
• COS	117	Cosmetology Concepts IV	2	0	0	0	2
• COS	118	Salon IV	0	21	0	0	7
BUS	280	REAL Small Business	4	0	0	0	4
Total			6	21	0	0	13

Second Year (Spring)

CIS	110	Introduction to Computers	2	2	0	0	3
COM	231	Public Speaking	3	0	0	0	3
COS	223	Contemporary Hair Coloring	1	3	0	0	2
COS	240	Contemporary Design	1	3	0	0	2
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			10	8	0	0	13

Total Semester Hours Credit (SHC) in Program: 67

- **This is a Core course and cannot be substituted.**

Cosmetology

Diploma Program
(D55140)

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
• COS	111	Cosmetology Concepts I	4	0	0	0	4
• COS	112	Salon I	0	24	0	0	8
ENG	102	Applied Communications II	3	0	0	0	3
Total			7	24	0	0	15

First Year (Spring)

• COS	113	Cosmetology Concepts II	4	0	0	0	4
• COS	114	Salon II	0	24	0	0	8
PSY	101	Applied Psychology	3	0	0	0	3
		OR					
PSY	118	Interpersonal Psychology	3	0	0	0	3
		OR					
SOC	100	Concept in Sociology	3	0	0	0	3
Total			7	24	0	0	15

First Year (Summer)

• COS	115	Cosmetology Concepts III	4	0	0	0	4
• COS	116	Salon III	0	12	0	0	4
		Total	4	12	0	0	8

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Fall)							
• COS	117	Cosmetology Concepts IV	2	0	0	0	2
	COS	118	Salon IV	0	21	0	7
Total			2	21	0	0	9

Total Semester Hours Credit (SHC) in Program: 47

- This is a Core course and cannot be substituted.

Cosmetology

Certificate Program
(C55140)

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
• COS	111	Cosmetology Concepts I	4	0	0	0	4
• COS	112	Salon I	0	24	0	0	8
Total			4	24	0	0	12

First Year (Spring)

• COS	113	Cosmetology Concepts II	4	0	0	0	4
• COS	114	Salon II	0	24	0	0	8
Total			4	24	0	0	12

First Year (Summer)

• COS	115	Cosmetology Concepts III	4	0	0	0	4
• COS	116	Salon III	0	12	0	0	4
Total			4	12	0	0	8

Total Semester Hours Credit (SHC) in Program: 32

- This is a Core course and cannot be substituted.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Cosmetology Instructor

Certificate Program
(C55160)

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

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

Graduates of the program may be employed as cosmetology instructors in public or private education and business. Applicants to this program must have a current North Carolina Cosmetologist License and six months' experience as a licensed cosmetologist.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Wanda Pressley-Altman at 704-216-3928, or send an email to pressleyw@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
First Semester							
• COS	271	Instructor Concepts I	5	0	0	0	5
• COS	272	Instructor Practicum I	0	21	0	0	7
Total			5	21	0	0	12
Second Semester							
• COS	273	Instructor Concepts II	5	0	0	0	5
• COS	274	Instructor Practicum II	0	21	0	0	7
Total			5	21	0	0	12

Total Semester Hours Credit (SHC) in Program: **24**

- This is a Core course and cannot be substituted.

Criminal Justice Technology

Associate In Applied Science Degree
(A55180)

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

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

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

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Spencer Rummage at 704-216-3738, or send an email to rummages@rowancabarrus.edu.

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
• CJC**	131	Criminal Law	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
Total			15	2	0	0	16

First Year (Spring)

CIS	110	Introduction to Computers	2	2	0	0	3
• CJC	112	Criminology	3	0	0	0	3
• CJC	113	Juvenile Justice	3	0	0	0	3
ENG	112	Argument-Based Research	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
---	---	Major Elective*	3	0	0	0	3
Total			17	2	0	0	18

Second Year (Fall)

CJC	141	Corrections	3	0	0	0	3
• CJC	212	Ethics & Community Relations	3	0	0	0	3
• CJC**	231	Constitutional Law	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
		OR					
MAT	161	College Algebra	3	0	0	0	3
		OR					
MAT	175	Precalculus	4	0	0	0	4
---	---	Major Elective*	0-3	0	0	0-30	3
Total			12-16	0	0	0-30	15-16

Total Semester Hours Credit (SHC) in Program: 65-66

- Note: Criminal Justice employers require criminal background checks, and a criminal record may prohibit employment.**

Students successfully completing Basic Law Enforcement Training at a school accredited by the N.C. Criminal Justice Training and Standards Commission will receive BLET transfer credit for these courses (10 semester hours). These students must have successfully completed Basic Law Enforcement Training since 1985. RCCC only ensures acceptance of these transfer credits in our Associate in Applied Science – Criminal Justice Technology Degree program. These transfer credits may or may not be accepted by a four-year institution to which they intend to transfer.

***Major Electives:**

Select 6 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses.

Title			Class	Lab	Clinical	W	Exp.	Credits
CJC	160	Terrorism: Underlying Issues	3	0	0	0	0	3
CJC	222	Criminalistics	3	0	0	0	0	3
CJC	223	Organized Crime	3	0	0	0	0	3
CJC	225	Crisis Intervention	3	0	0	0	0	3
CJC	233	Correctional Law	3	0	0	0	0	3
CJC	241	Community-Based Corrections	3	0	0	0	0	3
POL	120	American Government	3	0	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	0	3
COE	110	World of Work	1	0	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	0	1
COE	112	Co-op Work Experience I	0	0	0	20	0	2
COE	113	Co-op Work Experience I	0	0	0	30	0	3
COE	121	Co-op Work Experience II	0	0	0	10	0	1
COE	122	Co-op Work Experience II	0	0	0	20	0	2
COE	131	Co-op Work Experience III	0	0	0	10	0	1

Criminal Justice Technology

Certificate Program

(C55180)

Courses		Credit Hours
CJC 111	Introduction to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
CJC 141	Corrections	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3
Total Semester Hours Credit:		15

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Dental Assisting

Diploma Program

(D45240)

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

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

The Dental Assisting program is accredited by the Commission on Dental Accreditation. Graduates of ADA accredited dental assisting programs are DA IIs. As a DA II, defined by the Dental Laws of NC, graduates work in dental offices and other related areas.

Upon completion of the program, graduates are eligible to take the Dental Assisting National Board to become Certified Dental Assistants.

The following admission requirements are not eligible for appeal and are subject to change.

Admission Requirements:

In addition to the general requirements listed under the Admission Procedures for RCCC, the applicant must complete the following:

1. Submit an "Application for Admission" form.
2. Submit evidence of high school graduation and transcript of grades or GED scores, and college transcripts if applicable.
3. Have demonstrated proficiency in writing, reading, and basic numerical skills by COMPASS/ASSET testing or appropriate developmental or appropriate college courses. Placement test scores, remedial coursework, and appropriate college coursework (BIO, CIS), must be acquired within five (5) years of the year of admission to the Dental Assisting program.

Writing

- Standard score of 42 or higher on the ASSET Writing (or)
- Standard score of 71 or higher on the COMPASS Writing (or)
- Satisfactory completion of ENG 090 (or)
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) course in English composition (or)
- SAT Writing score of 500 or ACT Writing score of 21
(completed within five years of the year of admission to the Dental Assisting program)

Reading

- Standard score of 42 or higher on the ASSET Reading Skills (or)
- Standard score of 81 or higher on the COMPASS Reading Comprehensive (or)
- Satisfactory completion (grade C or higher) of a college-level (associate degree or higher) course in English composition (or)
- Satisfactory completion of RED 090 (or)
- SAT Reading score of 500 or ACT Reading score of 21
(completed within five years of the year of admission to the Dental Assisting program)

Math-Numerical Skills

- Standard score of 42 or higher on the ASSET Numerical Skills (or)
- Standard score of 47 or higher on the COMPASS Pre-Algebra (or)
- Satisfactory completion of MAT 060 (or)
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) math course (or)
- SAT Math score of 500 or ACT Math score of 21
(completed within five years of the year of admission to the Dental Assisting program)

The applicant is limited to testing twice in a 12-month period (initial test and one retest). Placement test requirements can be met by successfully completing the remedial courses recommended after COMPASS/ASSET testing. Applicants should check with the Admissions Office if they have any questions related to testing.

4. Meet RCCC requirements to take online classes.
5. Attend a Dental Assisting Information Session with the Dental Assisting faculty. The information session is used to convey information pertaining to goals and expectations of faculty members and students. **(FAILURE TO ATTEND WILL DELAY YOUR ADMISSIONS PROCESS.)** The following three forms will be made available to you in the Information Session:
 - a. Program Survey
 - b. Statement of Understanding regarding Drug Screening and Criminal Background Check
 - c. Technical Standards
6. Complete Hepatitis B series, which is a required immunization for Dental Assisting students. This immunization is a series of three injections. Submit documentation when all three injections have been received.

7. Submit proof of certification in basic life support, CPR, and AED at the Health Care Provider level (adult, child, and infant). Certification can be obtained through Continuing Education and must be maintained throughout the DEN course sequence. (Proof is a copy of applicant's CPR card.)
8. When items 1-7 have been completed, submit an Interest Form (available in Student Services or at the Dental Assisting Information session, or at the Health Programs website). This Interest Form indicates to Student Services that the applicant wants to be considered for fall admission into the Dental Assisting Program. This form **MUST** be submitted before your file will be reviewed. The date that you complete items 1-7 is your qualified date. Tentative program selection for the fall semester begins in March of that year and continues until the fall program fills.
9. When items 1-8 have been met, the Admissions Committee reviews the applicant's file. Tentative program placement is established and the student will be notified. Full acceptance/admission into the Dental Assisting Program is not granted until the applicant completes the following:
 - a. Criminal Background Report: RCCC Admissions Office will provide you with directives for securing the report.
 - b. Completed physical/dental examination forms (exam within last six months), which provide evidence of satisfactory physical, emotional, and mental health. Preadmission drug screening is required. The program head of Dental Assisting will handle problematic areas on an individual basis after consulting with clinical affiliates.
 - c. Documentation of Hepatitis B titer must be submitted.
10. Students who are not placed into the Dental Assisting program for the fall semester must meet admission requirements for the following year and resubmit an Interest Form after September 1.

Should an applicant not meet the prerequisites, RCCC provides courses to assist the applicant in meeting the admissions requirements. Upon completion of the requirements, the applicant will be considered for entry into the program if space in the program is available.

The General Occupational Technology Degree (GOT) program offers students enrolled in the Dental Assisting diploma program the opportunity to earn an A.A.S. degree. Students interested in this GOT program should make an appointment with the Director of General Occupational Technology immediately after completing the application and placement testing process in order to avoid taking courses that will not count toward the degree. Students wishing to obtain the GOT degree with a Concentration in Dental Assisting should substitute the following diploma General Education courses:

ENG 111 and COM 231 should be substituted for ENG 102.

PSY 150 should be substituted for PSY 118.

BIO 168, BIO 169, and BIO 275 should be substituted for BIO 106 (Even though BIO 168 will satisfy the Mathematics/Natural Sciences requirement for the GOT program, BIO 169 and BIO 275 are required for students pursuing a Dental Hygiene program at another community college and are also required by the Commission on Dental Accreditation for the Dental Assisting program.)

In addition to these course substitutions, anyone pursuing the GOT degree must select a humanities/fine arts elective from the list found on page 162 of this catalog.

Students wishing to enter a dental hygiene program can complete the General Education core requirements at RCCC for transfer. The student **MUST** contact the hygiene program or programs to acquire a list of the General Education core requirements specific to that program. However, completion of these general education requirements does **NOT** assure acceptance into a dental hygiene program. It is the student's responsibility to apply to the program of his or her choice and to meet specific admission requirements of that college.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Linda Kamp at 704-216-3726, or send an email to kampl@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
Fall Semester							
• DEN	100	Basic Orofacial Anatomy	2	0	0	0	2
• DEN	101	Preclinical Procedures	4	6	0	0	7
• DEN	102	Dental Materials	3	4	0	0	5
• DEN	111	Infection/Hazard Control	2	0	0	0	2
ENG	102	Applied Communications II	3	0	0	0	3
Total			14	10	0	0	19

• DEN 103	Dental Sciences	2	0	0	0	2
• DEN 104	Dental Health Education	2	2	0	0	3
• DEN 105	Practice Management	2	0	0	0	2
• DEN 106	Clinical Practice I	1	0	12	0	5
• DEN 112	Dental Radiography	2	3	0	0	3
	Total	9	5	12	0	15

BIO	106	Intro to Anatomy/Physiology/Microbiology	2	2	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
• DEN	107	Clinical Practice II	1	0	12	0	5
PSY	118	Interpersonal Psychology	3	0	0	0	3
Total			8	4	12	0	14

Total Semester Hours Credit (SHC) in Program: 48

- **This is a Core course and cannot be substituted.**

ENG 111 and COM 231 may be substituted for ENG 102.

PSY 150 or SOC 210 may be substituted for PSY 118.

BIO 168, BIO 169, and BIO 275 may be substituted for BIO 106.

Early Childhood Associate

General Program

Associate In Applied Science Degree (A55220)

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

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

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

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact the Director of Early Childhood Education Sandra Novick at 704-216-3728, or send an email to novicks@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• EDU	119	Intro. to Early Childhood Education	4	0	0	0	4
• EDU	144	Child Development I	3	0	0	0	3
• EDU	151	Creative Activities	3	0	0	0	3
• EDU	153	Health, Safety, & Nutrition	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
Total			16	2	0	0	17
First Year (Spring)							
• EDU	131	Children, Family, & Community	3	0	0	0	3
• EDU	145	Child Development II	3	0	0	0	3
• EDU	146	Child Guidance	3	0	0	0	3
• EDU	271	Educational Technology	2	2	0	0	3
ENG	112	Argument-Based Research	3	0	0	0	3
OR							
ENG	113	Literature-Based Research	3	0	0	0	3
Total			14	2	0	0	15
First Year (Summer)							
PSY	150	General Psychology	3	0	0	0	3
---	---	Major Elective*	1-3	0-2	0	0	3
Total			4-6	0-2	0	0	6

Second Year (Spring)

Total Semester Hours Credit (SHC) in Program:

68-69

- **This is a Core course and cannot be substituted.**

***Major Electives:**

Select 6 semester hour credits from the following:

Title			Class	Lab	Clinical	W Exp.	Credits
EDU	234	Infants, Toddlers & Twos	3	0	0	0	3
EDU	254	Music and Movement for Children	1	2	0	0	2
EDU	259	Curriculum Planning	3	0	0	0	3
EDU	261	Early Childhood Administration I	3	0	0	0	3
EDU	262	Early Childhood Administration II	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3

****Mathematics/Natural Sciences Electives:**

Select 3-4 semester hour credits from the following.

Title				Class	Lab	Clinical	W Exp.	Credits
AST	111	Descriptive Astronomy	AND	3	0	0	0	3
AST	111A	Descriptive Astronomy Lab		0	2	0	0	1
OR								
BIO	111	General Biology I		3	3	0	0	4
OR								
BIO	140	Environmental Biology	AND	3	0	0	0	3
BIO	140A	Environmental Biology Lab		0	3	0	0	1
OR								
PHY	110	Conceptual Physics	AND	3	0	0	0	3
PHY	110A	Conceptual Physics Lab		0	2	0	0	1
OR								
MAT	140	Survey of Mathematics		3	0	0	0	3

For students who choose a Natural Sciences elective, the requirement for meeting basic mathematical computation skills must be met. This can be accomplished by receiving an acceptable score on the basic math section of the placement test or successfully completing MAT 060.

Early Childhood Associate

Diploma Program
(D55220)

Courses			Credit Hours
• COE 111PS	Co-op Work Experience I - EC (Preschool)		1
or			
• COE 111SA	Co-op Work Experience I - EC (School-Age)		1
• EDU 119	Intro. to Early Childhood Education		4
EDU 126PS	Early Childhood Seminar I (Preschool)		2
or			
EDU 126SA	Early Childhood Seminar I (School-Age)		2
• EDU 131	Children, Family & Community		3
• EDU 144	Child Development I		3
• EDU 145	Child Development II		3
• EDU 146	Child Guidance		3
• EDU 151	Creative Activities		3
• EDU 153	Health, Safety & Nutrition		3
• EDU 221	Children with Exceptionalities		3
EDU 271	Educational Technology		3
ENG 111	Expository Writing		3
PSY 150	General Psychology		3
Total Semester Hours Credit:			37

• This is a Core course and cannot be substituted.

Early Childhood Associate

Certificate Programs
(C55220)

Courses		Credit Hours
Child Care Specialist Certificate (C55220CS)		
EDU 146	Child Guidance	3
EDU 151	Creative Activities	3
	Additional Early Childhood Course Work	6
Total Semester Hours Credit:		12

Requirements: Students must successfully complete the N. C. Early Childhood Credential (EDU 119 or EDU 111 and EDU 112) or present an equivalency letter from the N. C. Division of Child Development.

Early Childhood Administrator Advanced Certificate (C55220EA)		
EDU 144	Child Development I	3
EDU 145	Child Development II	3
EDU 146	Child Guidance	3
EDU 259	Curriculum Planning	3
Total Semester Hours Credit:		12

Requirements: Students must successfully complete the N. C. Early Childhood Administration Credential (EDU 261 and EDU 262) or present an equivalency letter from the N. C. Division of Child Development.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Early Childhood Certificate Infant/Toddler Care

(C55290)

The curriculum prepares individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with young children under the supervision of qualified teachers.

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

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

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact the Director of Early Childhood Education Sandra Novick at 704-216-3728, or send an email to novicks@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
Fall Semester							
• EDU	119	Intro to Early Childhood Ed	4	0	0	0	4
• EDU	144	Child Development I	3	0	0	0	3
• EDU	153	Health, Safety & Nutrition	3	0	0	0	3
Spring Semester							
• EDU	131	Child, Family & Community	3	0	0	0	3
• EDU	234	Infant, Toddlers and Twos	3	0	0	0	3

Total Semester Hours Credit (SHC) in Program:

16

- This Core course can not be substituted.

Early Childhood Associate

Associate in Applied Science Degree
Birth-Kindergarten UNC-Charlotte, Catawba College and
Livingstone College Transfer Program
(A55220TR)

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

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

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

This program is designed for students who intend to transfer to the UNC-Charlotte, Catawba College and Livingstone College in the Birth-Kindergarten Teaching License Program. Students who successfully complete this course of study and who meet the requirements for admission to UNC-Charlotte, Catawba College or Livingstone College are eligible to apply for admission to the major with junior standing.

Requirements are:

- A.A.S. in Early Childhood Associate (A55220TR)
- Cumulative GPA of 2.5 or higher
- Passing scores on all three Praxis I exams (Reading, Writing, Mathematics). For information and registration for PRAXIS, contact www.etc.org/praxis or a counselor in Student Services.
- Grade of C or higher on EDU 119 and EDU 221

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact the Director of Early Childhood Education Sandra Novick at 704-216-3728, or send an email to novicks@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W	Exp.	Credits
First Year (Fall)								
ACA	115	Success and Study Skills	0	2	0	0		1
• EDU	119	Introduction to Early Childhood Ed.	4	0	0	0		4
• EDU	144	Child Development I	3	0	0	0		3
• EDU	151	Creative Activities	3	0	0	0		3
• EDU	153	Health, Safety & Nutrition	3	0	0	0		3
ENG	111	Expository Writing	3	0	0	0		3
Total			16	2	0	0		17

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Spring)							
• EDU	131	Children, Family, & Community	3	0	0	0	3
• EDU	145	Child Development II	3	0	0	0	3
• EDU	146	Child Guidance	3	0	0	0	3
• EDU	271	Educational Technology	2	2	0	0	3
ENG	112	Argument-Based Research	3	0	0	0	3
OR							
ENG	113	Literature-Based Research	3	0	0	0	3
Total			14	2	0	0	15

First Year (Summer)

MAT	140	Survey of Mathematics	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
Total			6	0	0	0	6

Second Year (Fall)

• COE	111PS	Co-op Work Exp. I – EC (Preschool)	0	0	0	10	1
OR							
• COE	111SA	Co-op Work Exp. I – EC (School-Age)	0	0	0	10	1
EDU	126PS	Early Childhood Seminar I (Preschool)	2	0	0	0	2
OR							
EDU	126SA	Early Childhood Seminar I (School-Age)	2	0	0	0	2
• EDU	221	Children with Exceptionalities	3	0	0	0	3
EDU	251	Exploration Activities	3	0	0	0	3
• EDU	280	Language & Literacy Experiences	3	0	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			14	0	0	10	15

Second Year (Spring)

COM	231	Public Speaking	3	0	0	0	3
EDU	234	Infants, Toddlers, & Twos	3	0	0	0	3
EDU	259	Curriculum Planning	3	0	0	0	3
EDU	282	Early Childhood Literature	3	0	0	0	3
BIO	111	General Biology I	3	3	0	0	4
OR							
BIO	140	Environmental Biology	3	0	0	0	3
AND							
BIO	140A	Environmental Biology Lab	0	3	0	0	1
Total			15	3	0	0	16

Total Semester Hours Credit (SHC) in Program:**69**

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

- This is a Core course and cannot be substituted.

Early Childhood Associate - Teacher Associate

Associate In Applied Science Degree
(A5522B)

This program transfers to Pfeiffer University - Elementary Education

Teacher Associate is a concentration under the curriculum title of Early Childhood Education. This curriculum prepares individuals to work with children from infancy through middle childhood in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

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

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

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Director of Early Childhood Education Sandra Novick at 704-216-3728, or send an email to novicks@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• EDU	118	Teacher Associate Principles & Practices	3	0	0	0	3
• EDU	144	Child Development I	3	0	0	0	3
• EDU	151	Creative Activities	3	0	0	0	3
• EDU	153	Health, Safety and Nutrition	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
Total			15	2	0	0	16
First Year (Spring)							
• EDU	131	Children, Family & Community	3	0	0	0	3
• EDU	145	Child Development II	3	0	0	0	3
• EDU	146	Child Guidance	3	0	0	0	3
• EDU	186	Reading and Writing Methods	3	0	0	0	3
• EDU	271	Educational Technology	2	2	0	0	3
Total			14	2	0	0	15
First Year (Summer)							
PSY	150	General Psychology	3	0	0	0	3
• EDU	119	Intro to Early Childhood Education	4	0	0	0	4
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			10	0	0	0	10

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Fall)							
• COE	111PS	Co-op Work Exp. I – EC (Preschool)	0	0	0	10	1
OR							
• COE	111SA	Co-op Work Exp. I- EC (School-Age)	0	0	0	10	1
EDU	126PS	Early Childhood Seminar I (Preschool)	2	0	0	0	2
OR							
EDU	126SA	Early Childhood Seminar I (School-Age)	2	0	0	0	2
• EDU	221	Children with Exceptionalities	3	0	0	0	3
• EDU	235	School-Age Development & Programs	2	0	0	0	2
• EDU	280	Language & Literacy Experiences	3	0	0	0	3
ENG	112	Argument-Based Research	3	0	0	0	3
OR							
ENG	113	Literature-Based Research	3	0	0	0	3
Total			13	0	0	10	14

Second Year (Spring)

• COE	121SA	Co-op Work Exp. II – EC (School-Age)	0	0	0	10	1
COM	231	Public Speaking	3	0	0	0	3
• EDU	275	Effective Teaching Training	2	0	0	0	2
EDU	282	Early Childhood Literature	3	0	0	0	3
• EDU	285	Internship Experiences (School-Age)	1	0	0	0	1
EDU	286	Early Childhood Issues	1	0	0	0	1
---	---	Mathematics/Natural Sciences Elective*	3	0-3	0	0	3-4
Total			13	0-3	0	10	14-15

Total Semester Hours Credit (SHC) in Program:

69-70

- This is a Core course and cannot be substituted.

*Mathematics/Natural Sciences Electives:

Select 3-4 semester hour credits from the following.

Title			Class	Lab	Clinical	W Exp.	Credits
BIO	111	General Biology	3	3	0	0	4
OR							
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	0	1
OR							
MAT	140	Survey of Mathematics	3	0	0	0	3
OR							
PHY	110	Conceptual Physics	3	0	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	0	1

For students who choose a Natural Sciences elective, the requirement for meeting basic mathematical computation skills must be met. This can be accomplished by receiving an acceptable score on the basic math section of the placement test or successfully completing MAT 060.

Early Childhood Associate-Teacher Associate

Certificate Program (C5522B)

Courses		Credit Hours
EDU 144	Child Development I	3
EDU 145	Child Development II	3
EDU 146	Child Guidance	3
EDU 235	School-Age Development & Programs	2
EDU 275	Effective Teaching Training	2
Total Semester Hours Credit:		13

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Electrical/Electronics Technology

"Electrical Technology"

Associate In Applied Science Degree
(A35220)

The Electrical/Electronics Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical/electronic systems found in residential, commercial, and industrial facilities.

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

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

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Tony Deyton at 704-216-3916, or send an email to deytont@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA 115	Success and Study Skills		0	2	0	0	1
• ELC 112	DC/AC Electricity		3	6	0	0	5
• ELC 113	Basic Wiring I		2	6	0	0	4
ELC 118	National Electrical Code		1	2	0	0	2
ELC 126	Electrical Computations		2	2	0	0	3
Total			8	18	0	0	15

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Spring)							
CIS	110	Introduction to Computers	2	2	0	0	3
• ELC	117	Motors & Controls	2	6	0	0	4
ELC	125	Diagrams & Schematics	1	2	0	0	2
ENG	111	Expository Writing	3	0	0	0	3
---	---	Social/Behavioral Sciences Elective (<i>p.162</i>)	3	0	0	0	3
Total			11	10	0	0	15

First Year (Summer)

ELC	115	Industrial Wiring	2	6	0	0	4
ELC	119	NEC Calculations	1	2	0	0	2
• ELC	128	Introduction to PLC	2	3	0	0	3
Total			5	11	0	0	9

Second Year (Fall)

ELC	228	PLC Applications	2	6	0	0	4
• ELN	131	Semiconductor Applications	3	3	0	0	4
ENG	114	Professional Research & Reporting	3	0	0	0	3
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
---	---	Major Elective*	0-2	0-3	0	0-30	2
Total			10-12	11-14	0	0-30	16

Second Year (Spring)

ELC	215	Electrical Maintenance	2	3	0	0	3
ELN	133	Digital Electronics	3	3	0	0	4
MAT	122	Algebra/Trigonometry II	2	2	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Elective*	0-2	0-3	0-3	0-30	2
Total			10-12	8-11	0-3	0-30	15

Total Semester Hours Credit (SHC) in Program:**70**

- This is a Core course and cannot be substituted.

***Major Electives:**

Select 4 semester hour credits from the following courses. This may include up to 4 SHC from COE course/combination of courses.

Title			Class	Lab	Clinical	W Exp.	Credits
DFT	151	CAD I	2	3	0	0	3
ELN	150	CAD for Electronics	1	3	0	0	2
ISC	112	Industrial Safety	2	0	0	0	2
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

Electrical/Electronics Technology

“Electrical Technology”

Diploma Program
(D35220)

Courses		Credit Hours
CIS 110	Introduction to Computers	3
ENG 102	Applied Communications II	3
• ELC 112	DC/AC Electricity	5
• ELC 113	Basic Wiring I	4
• ELC 115	Industrial Wiring	4
• ELC 117	Motors & Controls	4
ELC 118	National Electrical Code	2
ELC 119	NEC Calculations	2
ELC 125	Diagrams & Schematics	2
ELC 126	Electrical Computations	3
ELC 128	Introduction to PLC	3
PSY 101	Applied Psychology	3
Total Semester Hours Credit:		38

- This is a Core course and cannot be substituted.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Electrical/Electronics Technology

“Electrical Technology”

Certificate Programs
(C35220)

Courses		Credit Hours
Industrial Motor Control (C35220MO)		
ELC 112	Direct & Alternating Current	5
ELC 117	Motors & Controls	4
ELC 125	Diagrams & Schematics	2
ELC 126	Electrical Computations	3
ELC 128	Introduction to PLC	3
Total Semester Hours Credit:		17
Wiring and the NEC (C35220NE)		
ELC 113	Basic Wiring I	4
ELC 115	Industrial Wiring	4
ELC 118	National Electrical Code	2
ELC 119	NEC Calculations	2
Total Semester Hours Credit:		12

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Electronics Engineering Technology

Associate In Applied Science Degree
(A40200)

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

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student’s ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

Students who desire to pursue a BS degree in any engineering technology field are strongly recommended to: (a) Substitute MAT 175 for MAT 121; (b) Select SOC 210 and HUM 211 for the Social/Behavioral Sciences and Humanities/Fine Arts electives; and (c) Substitute PHY 151 and PHY 152 for PHY 131 and PHY 132.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Michele Chance at 704-216-3905 or send an email to chancem@rowancabarrus.edu.

The following is a suggested program of study for completing this program in five semesters. Some students’ programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
• ELC	138	DC Circuit Analysis	2	3	0	0	3
• ELC	139	AC Circuit Analysis	2	3	0	0	3
ELN	150	CAD for Electronics	1	3	0	0	2
Total			7	13	0	0	12
First Year (Spring)							
• ELN	131	Semiconductor Applications	3	3	0	0	4
• ELN	133	Digital Electronics	3	3	0	0	4
ENG	111	Expository Writing	3	0	0	0	3
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			14	8	0	0	17

Esthetics Instructor

Certificate Program
(C55270)

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

Course work includes all phases of esthetics theory laboratory instruction.

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

Applicants to this program must have a current North Carolina Esthetician or Cosmetologist License and six months' experience as a licensed esthetician or cosmetologist.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Wanda Pressley-Altman at 704-216-3928, or send an email to pressleyw@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
First Semester							
• COS	253	Esthetics Instructor Concepts I	6	15	0	0	11
Second Semester							
• COS	254	Esthetics Instructor Concepts II	6	15	0	0	11

Total Semester Hours Credit (SHC) in Program: **22**

- This is a Core course and cannot be substituted.

Esthetics Technology

Certificate Program (C55230)

The Esthetics Technology curriculum provides competency-based knowledge, scientific/artistic principles and hands-on fundamentals associated with the art of skin care.

The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

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

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

A high school diploma or GED is required, or student must be currently enrolled in a high school or GED program.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Wanda Pressley-Altman at 704-216-3928, or send an email to pressleyw@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
First Semester							
• COS	119	Esthetics Concepts I	2	0	0	0	2
• COS	120	Esthetics Salon I	0	18	0	0	6
Total			2	18	0	0	8
Second Semester							
• COS	125	Esthetics Concepts II	2	0	0	0	2
• COS	126	Esthetics Salon II	0	18	0	0	6
Total			2	18	0	0	8

Total Semester Hours Credit (SHC) in Program: **16**

- This is a Core course and cannot be substituted.

Fire Protection Technology

Cooperative Transfer Program

Program Offered in Cooperation with Central Piedmont Community College

(A55240CP)

(Part-Time South Campus Program)

The Fire Protection Technology curriculum is designed to provide individuals with technical and professional knowledge to make decisions regarding fire protection for both public and private sectors. It also provides a sound foundation for continuous higher learning in fire protection, administration, and management.

Coursework includes classroom and laboratory exercises to introduce the student to various aspects of fire protection. Students will learn technical and administrative skills such as hydraulics, hazardous materials, arson investigation, fire protection safety, fire suppression management, law, and codes.

Graduates should qualify for employment or advancement in governmental agencies, industrial firms, insurance rating organizations, educational organizations, and municipal fire departments. Employed persons should have opportunities for skilled and supervisory-level positions within their current organizations.

RCCC has a transfer agreement for this program with Central Piedmont Community College (CPCC). **In this cooperative approach, students are able to take general education courses at RCCC. Fire protection courses are taught in Concord; however, some specialty courses may be taught at CPCC.**

The Associate in Applied Science Degree - Fire Protection Technology - will be awarded by CPCC.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact RCCC Program Head Franklin Merrell at 704-216-3920, or send an email to merrellf@rowancabarrus.edu or call the CPCC Program Chair at 704-330-4636, or program counselors at 704-330-4646.

General Occupational Technology

Associate in Applied Science Degree

(A55280)

The General Occupational Technology (GOT) curriculum program is intended to meet the needs of individual students or groups of students who require programming other than that offered through the structure of the college's approved curricula. The curriculum provides individuals with the opportunity to upgrade their skills and to earn an associate degree by taking courses suited for their occupational interests and/or needs.

The curriculum content will be individualized for students according to their occupational interests and needs. For the student seeking an associate degree, a program of study will be selected from associate degree-level courses offered by the college and **MUST** be approved by the appropriate program head, dean, and Director of the Occupational Technology program.

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

To enroll in this program, individuals must complete the following steps: fill out an application to RCCC, schedule to take the Placement Test, and make an appointment with the Dean of Academic Support Services (Brenda Moon), 704-216-3853 or send an email to moonb@rowancabarrus.edu.

General Occupational Technology

Diploma Program

(D55280)

Students interested in entering a limited enrollment program (Radiography, Nursing, or Dental Assisting) at RCCC are admitted to the diploma program for General Occupational Technology while they are actively working to meet program admission requirements. Students will work directly with their program advisors regarding specific requirements.

Industrial Engineering Technology

Associate In Applied Science Degree
(A40240)

The Industrial Engineering Technology curriculum prepares graduates to perform as technical leaders in manufacturing and service organizations. The curriculum incorporates the study and application of methods and techniques for developing, implementing, and improving integrated systems involving people, material, equipment, and information.

The course work emphasizes analytical and problem-solving techniques for process development and improvement. The curriculum includes systems analysis, quality and productivity improvement techniques, cost analysis, facilities planning, organizational management, effective communications, and computer usage as a problem-solving tool.

Graduates of the curriculum should qualify for positions in a wide range of manufacturing and service organizations. Employment opportunities include industrial engineering technology, quality assurance, supervision, team leadership, and facilities management. Certification is available through organizations such as ASQ, SME, and APICS.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Franklin Merrell at 704-216-3920, or send an email to merrellf@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• BUS	137	Principles of Management	3	0	0	0	3
EGR	115	Introduction to Technology	2	3	0	0	3
EGR	125	Applications Software for Technology	1	2	0	0	2
ENG	111	Expository Writing	3	0	0	0	3
• ISC	112	Industrial Safety	2	0	0	0	2
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
OR							
MAT	161	College Algebra	3	0	0	0	3
Total			13-14	7-9	0	0	17

First Year (Spring)

• DFT	170	Engineering Graphics	2	2	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	0	3
• ISC	136	Productivity Analysis I	2	3	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics I Lab	0	2	0	0	1
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			13	7	0	0	16

First Year (Summer)

ISC	214	Job Analysis/Wages & Salary	2	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
Total			5	3	0	0	6

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Fall)							
CIV	240	Project Management	2	3	0	0	3
• ISC	132	Manufacturing Quality Control	2	3	0	0	3
• ISC	243	Productivity & Operational Mgmt. I	2	3	0	0	3
---	---	Technical Elective*	1-6	0-10	0	0-30	6
Total			7-13	9-19	0	0-30	15

Second Year (Spring)							
ISC	255	Engineering Economy	2	2	0	0	3
• MEC	242	Value/Supply Chain Management	3	0	0	0	3
---	---	Technical Elective*	1-6	0-10	0	0-30	6
Total			6-12	2-12	0	0-30	12

Total Semester Hours Credit (SHC) in Program: 66

- This is a Core course and cannot be substituted.

***Technical Electives:**

Select 12 semester hour credits from one of the following options. This may include up to 3 SHC from COE course/combination of courses.

Title			Class	Lab	Clinical	W Exp.	Credits
Biotechnology Option							
BIO	111	General Biology I	3	3	0	0	4
* BTC	181	Basic Lab Techniques	3	3	0	0	4
* BPM	110	Bioprocess Practices	3	4	0	0	5
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4

* BTC 181 is required. BPM 110 is highly recommended.

Manufacturing/Services Option

BUS	217	Employment Law & Regulations	3	0	0	0	3
ISC	121	Environmental Health & Safety	3	0	0	0	3
ISC	225	Facility Layout	3	2	0	0	4
MEC	111	Machine Processes I	1	4	0	0	3
PHY	151	College Physics I	3	2	0	0	4

Logistics/Warehousing Option

OMT	226	Facility Security	3	0	0	0	3
OMT	240	Customers & Products	3	0	0	0	3
OMT	241	Logistics	3	0	0	0	3
OMT	243	Support Functions	3	0	0	0	3
OMT	246	Strategic Management of Resources	2	0	0	0	2

Title			Class	Lab	Clinical	W Exp.	Credits
Construction Option							
CIV	230	Construction Estimating	2	3	0	0	3
CMT	210	Professional Construction Supervision	3	0	0	0	3
CMT	212	Total Safety Performance	3	0	0	0	3
CMT	216	Costs and Productivity	3	0	0	0	3
CMT	218	Human Relations Issues	3	0	0	0	3

Three (3) SHC may be selected from the following COE courses:

COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

NOTES:

- (1) *MAT 161, MAT 175, or MAT 271 may be substituted for transfer credit (may require extra prerequisites).*
- (2) *Students who wish to transfer to a four-year school should select PHY 151 and substitute MAT 161 for MAT 121.*
- (3) *Some BTC prefix courses may need to be taken at either Gaston College or Forsyth Technical Community College and transferred back to RCCC.*

Industrial Engineering Technology

Certificate Programs

(C40240)

Courses			Credit Hours
Safety Certificate (C40240SA)			
CMT212	Total Safety Performance		3
EGR 125	Applications Software for Technology		2
ISC 112	Industrial Safety		2
ISC 121	Environmental Health & Safety		3
ISC 225	Facility Layout		4
Total Semester Credit Hours:			14
Quality Certificate (C40240QL)			
CIV 240	Project Management		3
DFT 170	Engineering Graphics		3
EGR 125	Applications Software for Technology		2
ISC 132	Manufacturing Quality Control		3
MEC242	Value/Supply Chain Management		3
Total Semester Credit Hours:			14
Maintenance Management Certificate (C40240MM)			
BUS 137	Principles of Management		3
DFT 170	Engineering Graphics		3
ISC 112	Industrial Safety		2
ISC 225	Facility Layout		4
MEC111	Machine Processes I		3
Total Semester Credit Hours:			15

Courses		Credit Hours
<i>The following cognate courses may be taken to enhance the student's skills;</i>		
CIV 240	Project Management	3
ELC 112	DC/AC Electricity	5
MEC242	Value/Supply Chain Management	3
Bioprocess Engineering Technology Certificate (C40240BP)		
BIO 111	General Biology I	4
BTC 181	Basic Lab Techniques	4
BPM 110	Bioprocess Practices	5
ISC 112	Industrial Safety	2
ISC 132	Manufacturing Quality Control	3
Total Semester Credit Hours:		18
Production Control Certificate (C40240PC)		
CIV 240	Project Management	3
ISC 136	Productivity Analysis I	3
ISC 243	Production & Operations Management I	3
ISC 255	Engineering Economy	3
Electives (Select one course)		
ECO 251	Principles of Microeconomics	3
EGR 125	Applications Software for Technology	2
MEC242	Value/Supply Chain Management	3
Total Semester Credit Hours:		14-15
Manufacturing I Certificate (C40240MF)		
DFT 170	Engineering Graphics	3
EGR 125	Applications Software for Technology	2
ISC 132	Manufacturing Quality Control	3
MEC111	Machine Processes I	3
MEC242	Value/Supply Chain Management	3
Total Semester Credit Hours:		14
Management Certificate (C40240MC)		
BUS 217	Employment Law and Regulations	3
CIV 240	Project Management	3
EGR 125	Applications Software for Technology	2
ISC 243	Productivity & Operations Management I	3
ISC 255	Engineering Economy	3
Electives (Select one course)		
BUS 137	Principles of Management	3
ISC 136	Productivity Analysis I	3
ISC 214	Job Analysis/Wages & Salary	3
Total Semester Credit Hours:		17

Courses		Credit Hours
Industrial Engineering Technology Certificate (C40240IE)		
EGR 125	Applications Software for Technology	2
ISC 112	Industrial Safety	2
ISC 132	Manufacturing Quality Control	3
ISC 136	Productivity Analysis I	3
ISC 225	Facility Layout	4
MEC242	Value/Supply Chain Management	3
Total Semester Credit Hours:		17

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Infant/Toddler Care

(C55290)

See page 225

Information Systems Security

Associate in Applied Science Degree
(A25270)

Information Systems Security covers a broad expanse of technology concepts. This curriculum provides individuals with the skills required to implement effective and comprehensive information security controls.

Course work includes networking technologies, operating systems administration, information policy, intrusion detection, security administration, and industry best practices to protect data communications.

Graduates should be prepared for employment as security administrators. Additionally, they will acquire the skills that allow them to pursue security certifications.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Ruth Parker at 704-216-3787, or send an email to parkerr@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
• NET	125	Networking Basics	1	4	0	0	3
• NET	126	Routing Basics	1	4	0	0	3
• NOS	110	Operating System Concepts	2	3	0	0	3
• SEC	110	Security Concepts	3	0	0	0	3
Total			12	15	0	0	19
First Year (Spring)							
ENG	114	Professional Research & Reporting	3	0	0	0	3
NET	225	Routing & Switching I	1	4	0	0	3
NET	226	Routing & Switching II	1	4	0	0	3
NOS	130	Windows Single User	2	2	0	0	3
• SEC	150	Secure Communications	2	2	0	0	3
Total			9	12	0	0	15
First Year (Summer)							
• BUS	110	Introduction to Business	3	0	0	0	3
NET	175	Wireless Technology	2	2	0	0	3
• SEC	160	Secure Administration I	2	2	0	0	3
---	---	Humanities/Fine Arts Elective (p.162)	3	0	0	0	3
Total			10	4	0	0	12

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Fall)							
MAT	115	Mathematical Models	2	2	0	0	3
		OR					
MAT	140	Survey of Mathematics	3	0	0	0	3
		OR					
MAT	161	College Algebra	3	0	0	0	3
• NOS	120	Linux/UNIX Single User	2	2	0	0	3
• SEC	210	Intrusion Detection	2	2	0	0	3
• SEC	220	Defense-in-Depth	2	2	0	0	3
Total			8-9	6-8	0	0	12

Second Year (Spring)							
• CIS	115	Introduction to Programming & Logic	2	3	0	0	3
• DBA	110	Database Concepts	2	3	0	0	3
• SEC	289	Security Capstone Project	1	4	0	0	3
---	---	Social/Behavioral Science Elective (p.162)	3	0	0	0	3
Total			8	10	0	0	12

Total Semester Hours Credit (SHC) in Program:

70

- This is a Core course and cannot be substituted.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Machining Technology

Diploma Program (D50300)

The Machining Technology curriculum is designed to develop skills in the theory and safe use of hand tools, power machinery, computerized equipment, and sophisticated precision inspection instruments.

Students will learn to interpret blueprints, set up manual and CNC machines, perform basic and advanced machining operations, and make decisions to ensure that work quality is maintained.

Employment opportunities for machining technicians exist in manufacturing industries, public institutions, governmental agencies, and in a wide range of specialty machining job shops.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Jerry Hunt at 704-216-3915, or send an email to huntj@rowancabarrus.edu.

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

Title		Class	Lab	Clinical	W Exp.	Credits
Fall Semester						
• MAC 111	Machining Technology I	2	12	0	0	6
• BPR 111	Blueprint Reading	1	2	0	0	2
ENG 102	Applied Communications II	3	0	0	0	3
MAC 114	Introduction to Metrology	2	0	0	0	2
• MAC 121	Introduction to CNC	2	0	0	0	2
MAC 151	Machining Calculations	1	2	0	0	2
Total		11	16	0	0	17
Spring Semester						
• MAC 112	Machining Technology II	2	12	0	0	6
• BPR 121	Blueprint Reading: Mechanical	1	2	0	0	2
CIS 110	Introduction to Computers	2	2	0	0	3
• MAC 122	CNC Turning	1	3	0	0	2
MAC 152	Advanced Machining Calculations	1	2	0	0	2
MEC 142	Physical Metallurgy	1	2	0	0	2
OR						
COE 111	Co-op Work Experience I	0	0	0	10	1
Total		7-8	21-23	0	0-10	16-17
Summer Term						
• MAC 113	Machining Technology III	2	12	0	0	6
• MAC 124	CNC Milling	1	3	0	0	2
Total		3	15	0	0	8

Total Semester Hours Credit (SHC) in Program: 41-42

- This is a Core course and cannot be substituted.

Machining Technology

Certificate Programs (C50300)

Courses		Credit Hours
Basic Certificate (C50300BA)		
BPR 111	Blueprint Reading	2
MAC 111	Machining Technology I	6
MAC 114	Introduction to Metrology	2
MAC 151	Machining Calculations	2
Total Semester Credit Hours:		12
Intermediate Certificate (C50300IN)		
MAC 111	Machining Technology I	6
MAC 112	Machining Technology II	6
Total Semester Credit Hours:		12
Basic CNC Certificate (C50300CN)		
BPR 111	Blueprint Reading	2
MAC 114	Introduction to Metrology	2
MAC 121	Introduction to CNC	2
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
MAC 142	Physical Metallurgy	2
Total Semester Credit Hours:		12
Conventional Machining Certificate (C50300CM)		
MAC 111	Machining Technology I	6
MAC 112	Machining Technology II	6
MAC 113	Machining Technology III	6
Total Semester Credit Hours:		18
CNC Operator Certificate (C50300OP)		
BPR 111	Blueprint Reading	2
MAC 111	Machining Technology I	6
MAC 114	Introduction to Metrology	2
MAC 121	Introduction to CNC	2
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
Total Semester Credit Hours:		16

Manicuring Instructor

Certificate Program
(C55380)

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

Course work includes all phases of manicuring theory laboratory instruction.

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

Evidence of high school completion or GED is recommended.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Wanda Pressley-Altman at 704-216-3928, or send an email to pressleyw@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
• COS 251	Manicuring Instructor Concepts		8	0	0	0	8
• COS 252	Manicuring Instructor Practicum		0	15	0	0	5
Total			8	15	0	0	13

Total Semester Hours Credit (SHC) in Program: 13

- This is a Core course and cannot be substituted.

Manicuring/Nail Technology

Certificate Program
(C55400)

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

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

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

A high school diploma or GED is required, or student must be currently enrolled in a high school or GED program.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Wanda Pressley-Altman at 704-216-3928, or send an email to pressleyw@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
First 8 Weeks							
• COS	121	Manicure/Nail Technology I	4	6	0	0	6
Second 8 Weeks							
• COS	222	Manicure/Nail Technology II	4	6	0	0	6
Total			8	12	0	0	12

Total Semester Hours Credit (SHC) in Program: 12

- This is a Core course and cannot be substituted.

Mechanical Drafting Technology

Associate in Applied Science Degree

(A50340)

Effective Fall Semester, 2008, the AAS degree in Mechanical Drafting Technology will be replaced by the AAS degree in Mechanical Engineering Technology (pending State Board approval).

The Mechanical Drafting Technology curriculum prepares technicians to produce drawings of mechanical parts, components of mechanical systems, and mechanisms. CAD and the importance of technically correct drawings and designs based on current standards are emphasized.

Course work includes mechanical drafting, CAD, and proper drawing documentation. Concepts such as machine shop processes, basic materials, and physical sciences as they relate to the design process are also included. The use of proper dimensioning and tolerance techniques is stressed.

Graduates should qualify for employment in mechanical areas such as manufacturing, fabrication, research and development, and service industries.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head George Barringer at 704-216-3901 or send an email to barringerg@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• DFT	111	Technical Drafting I	1	3	0	0	2
DFT	111A	Technical Drafting I Lab	0	3	0	0	1
• DFT	151	CAD I	2	3	0	0	3
MAC	121	Introduction to CNC	2	0	0	0	2
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
• MEC	111	Machine Processes I	1	4	0	0	3
Total			8	17	0	0	15

First Year (Spring)							
CIS	110	Introduction to Computers	2	2	0	0	3
• DFT	112	Technical Drafting II	1	3	0	0	2
DFT	112A	Technical Drafting II Lab	0	3	0	0	1
DFT	121	Intro. to Geometric Dimen. & Tol.	1	2	0	0	2
• DFT	152	CAD II	2	3	0	0	3
MAC	122	CNC Turning	1	3	0	0	2
MAT	122	Algebra/Trigonometry II	2	2	0	0	3
Total			9	14	0	0	16

First Year (Summer)							
DDF	211	Design Process I	1	6	0	0	4
DFT	153	CAD III	2	3	0	0	3
PHY	131	Physics-Mechanics	3	2	0	0	4
Total			6	11	0	0	11

Second Year (Fall)							
CIS	115	Intro. to Programming & Logic	2	3	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MEC	275	Engineering Mechanisms	2	2	0	0	3
---	---	Social/Behavioral Sciences Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Elective*	1-3	2-3	0	0-20	4
Total			11-13	7-8	0	0-20	16

Second Year (Spring)							
CSC	134	C++ Programming	2	3	0	0	3
		OR					
CSC	139	Visual BASIC Programming	2	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
MEC	142	Physical Metallurgy	1	2	0	0	2
MEC	251	Statics	2	2	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			11	7	0	0	14

Total Semester Hours Credit (SHC) in Program: 72

- This is a Core course and cannot be substituted.

*Major Electives

Select 4 semester hour credits from the following. This may include up to 2 SHC from COE course/combination of courses.

		Title	Class	Lab	Clinical	W Exp.	Credits
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	121	Co-op Work Experience II	0	0	0	10	1
EGR	115	Introduction to Technology	2	3	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
ISC	132	Manufacturing Quality Control	2	3	0	0	3
ISC	225	Facility Layout	3	2	0	0	4
ISC	255	Engineering Economy	2	2	0	0	3
MAC	114	Introduction to Metrology	2	0	0	0	2
MAC	124	CNC Milling	1	3	0	0	2

Mechanical Drafting Technology

Diploma Program
(D50340)

	Courses	Credit Hours
	CIS 110 Introduction to Computers	3
	DDF 211 Design Process I	4
•	DFT 111 Technical Drafting I	2
	DFT 111A Technical Drafting I Lab	1
•	DFT 112 Technical Drafting II	2
	DFT 112A Technical Drafting II Lab	1
	DFT 121 Intro. to Geometric Dimensioning & Toler.	2
•	DFT 151 CAD I	3
•	DFT 152 CAD II	3
	DFT 153 CAD III	3
	ENG 111 Expository Writing	3
	MAC 121 Introduction to CNC	2
	MAC 122 CNC Turning	2
	MAT 121 Algebra/Trigonometry I	3
•	MEC 111 Machine Processes I	3
Total Semester Hours Credit		37

Mechanical Drafting Technology

Certificate Program
(C50340)

	Courses	Credit Hours
	DFT 111 Technical Drafting I	2
	DFT 111A Technical Drafting I Lab	1
	DFT 112 Technical Drafting II	2
	DFT 112A Technical Drafting II Lab	1
	DFT 151 CAD I	3
	DFT 152 CAD II	3
Total Semester Hours Credit		12

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Mechanical Engineering Technology

(A40320)

Coming Fall Semester 2008!

(Pending State Board Approval)

Medical Office Administration

Associate In Applied Science Degree

(A25310)

This curriculum prepares individuals for employment in medical and other health care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health care-related organizations.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Glenda Greene at 704-216-3773, or send an email to greeneg@rowancabarrus.edu.

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
• OST	131	Keyboarding	1	2	0	0	2
• OST	141	Medical Terminology I – Med. Office	3	0	0	0	3
OST	164	Text Editing Applications	3	0	0	0	3
OST	286	Professional Development	3	0	0	0	3
---	---	Social/Behavioral Sciences Elective (<i>p.162</i>)	3	0	0	0	3
Total			16	4	0	0	18

First Year (Spring)

ENG 114	Professional Research & Reporting	3	0	0	0	3
MAT 115	Mathematical Models	2	2	0	0	3
OR						

		Title	Class	Lab	Clinical	W Exp.	Credits
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
		OR					
BIO	168	Anatomy & Physiology I	3	3	0	0	4
• OST	134	Text Entry & Formatting	2	2	0	0	3
• OST	142	Medical Terminology II – Med. Office	3	0	0	0	3
• OST	148	Medical Coding, Billing & Insurance	3	0	0	0	3
• OST	149	Medical Legal Issues	3	0	0	0	3
Total			16-18	4-5	0	0	18-20

Second Year (Fall)

ACC	120	Principles of Financial Accounting	3	2	0	0	4
BUS	137	Principles of Management	3	0	0	0	3
OST	136	Word Processing	1	2	0	0	2
• OST	137	Office Software Applications	1	2	0	0	2
OST	241	Medical Office Transcription I	1	2	0	0	2
OST	247	CPT Coding in the Medical Office	1	2	0	0	2
Total			10	10	0	0	15

Second Year (Spring)

COM	110	Introduction to Communications	3	0	0	0	3
		OR					
COM	231	Public Speaking	3	0	0	0	3
OST	236	Advanced Word/Information Processing	2	2	0	0	3
OST	242	Medical Office Transcription II	1	2	0	0	2
• OST	243	Medical Office Simulation	2	2	0	0	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Elective(s)*	0-3	0-3	0	0-30	3-4
Total			11-14	6-9	0	0-30	17-18

Total Semester Hours Credit (SHC) in Program:

68-71

- This is a Core course and cannot be substituted.

*Major Electives:

Select 3-4 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	W Exp.	Credits
BIO	169	Anatomy and Physiology II	3	3	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	165	Desktop Publishing I	2	2	0	0	3
OST	122	Office Computations	1	2	0	0	2
OST	132	Keyboarding Skill Building	1	2	0	0	2
OST	135	Advanced Text Entry & Formatting	3	2	0	0	4
OST	184	Records Management	1	2	0	0	2
OST	244	Medical Document Production	1	2	0	0	2
OST	284	Emerging Technologies	1	2	0	0	2
OST	289	Office Systems Management	2	2	0	0	3

		Title	Class	Lab	Clinical	W Exp.	Credits
COE	110	World of Work	1	0	0	0	1
COE	111	Co-Op Work Experience I	0	0	0	10	1
COE	112	Co-Op Work Experience I	0	0	0	20	2
COE	113	Co-Op Work Experience I	0	0	0	30	3
COE	121	Co-Op Work Experience II	0	0	0	10	1
COE	122	Co-Op Work Experience II	0	0	0	20	2
COE	131	Co-Op Work Experience III	0	0	0	10	1

This program does not certify students to be Medical Transcriptionists but does give students medical transcribing skills to transcribe medical documents.

Medical Office Administration

Diploma Program (D25310)

Courses		Credit Hours
CIS 110	Introduction to Computers	3
ENG 111	Expository Writing	3
• OST 131	Keyboarding	2
• OST 134	Text Entry & Formatting	3
• OST 136	Word Processing	2
• OST 137	Office Software Applications	2
• OST 141	Medical Terminology I - Medical Office	3
• OST 142	Medical Terminology II- Medical Office	3
• OST 148	Medical Coding, Billing & Insurance	3
• OST 149	Medical Legal Issues	3
• OST 164	Text Editing Applications	3
OST 236	Advanced Word/Information Processing	3
• OST 286	Professional Development	3
--- ---	Major Elective from A.A.S. program	3
--- ---	Social/Behavioral Science Elective (<i>p.162</i>)	3

Total Semester Hours Credit: 42

- **This is a Core course and cannot be substituted.**

Medical Office Administration

Certificate Program (C25310)

Courses		Credit Hours
OST 131	Keyboarding	2
OST 134	Text Entry & Formatting	3
OST 141	Medical Terminology I - Medical Office	3
OST 142	Medical Terminology II - Medical Office	3
OST 149	Medical Legal Issues	3

Total Semester Hours Credit: 14

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Motorsports Management Technology

Associate In Applied Science Degree
(A60270)

The Motorsports Management Technology curriculum is designed to provide students with the knowledge and skills necessary to perform mid-management level functions in motorsports-related companies.

Course work includes instruction in general studies, motorsports, fundamentals, principles of management, computer applications, accounting, business mathematics, marketing, advertising and sales promotion, and human relations.

Graduates should qualify for employment/advancement in jobs related to management of motorsports teams/events/activities, as well as production and distribution of motorsports products and services.

Students who desire to pursue a BS degree in Manufacturing Systems, Motorsports, through North Carolina A&T State University, are strongly recommended to take MAT 161 for the Math/Natural Sciences elective and either (a) CHM 151 or (b) PHY 151 as an approved substitution for an elective.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Richmond Gage at 704-216-3918, or send an email to gager@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• BUS	137	Principles of Management	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
• MSM	110	Intro. to Motorsports Management	3	0	0	0	3
• MSM	112	Engine/Drivetrain Fundamentals	1	2	0	0	2
Total			12	6	0	0	15
First Year (Spring)							
BUS	121	Business Mathematics	2	2	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
• MSM	216	Organization Mobility	2	0	0	0	2
---	---	Mathematics/Natural Science Elective*	2-4	0-2	0	0	3-4
Total			11-13	4-6	0	0	14-15
First Year (Summer)							
---	---	Major Elective**	0-3	0-3	0	0-20	3
---	---	Major Elective**	0-3	0-3	0	0-20	3
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			3-9	0-6	0	0-20	9

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Fall)							
	BUS 280	REAL Small Business	4	0	0	0	4
•	MSM 210	Motorsports Marketing	3	0	0	0	3
•	MSM 212	Chassis/Handling Fundamentals	2	2	0	0	3
---	---	Social/Behavioral Sciences Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Elective**	0-3	0-3	0	0-20	3
Total			12-15	2-5	0	0-20	16

Second Year (Spring)

ACC	120	Principles of Financial Accounting	3	2	0	0	4
BUS	253	Leadership & Management Skills	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
• MSM	214	Fabrication Fundamentals	1	2	0	0	2
• MSM	218	Safety/Environment	2	0	0	0	2
Total			12	4	0	0	14

Total Semester Hours Credit (SHC) in Program: 68-69

- **This is a core course and cannot be substituted.**

***Mathematics/Natural Sciences Electives:**

Select 3-4 semester hour credits from the following.

Title			Class	Lab	Clinical	W Exp.	Credits
BIO	140	Environmental Biology OR	3	0	0	0	3
PHY	110	Conceptual Physics OR	3	0	0	0	3
MAT	140	Survey of Mathematics OR	3	0	0	0	3
MAT	121	Algebra/Trigonometry I OR	2	2	0	0	3
MAT	161	College Algebra OR	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4

For students who choose a Natural Sciences elective, the requirement for meeting basic mathematical computation skills must be met. This can be accomplished by receiving an acceptable score on the basic math section of the placement test or successfully completing MAT 060.

**Major Electives:

Select 9 semester hour credits from the following courses. This may include up to 2 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	W Exp.	Credits
BUS	115	Business Law I	3	0	0	0	3
BUS	153	Human Resource Management	3	0	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	260	Business Communication	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	3
MSM	220	Advanced Chassis Analysis	1	2	0	0	2
MSM	285	Motorsports Capstone Project	1	3	0	0	2
PHY	151	College Physics I	3	2	0	0	4
WLD	112	Basic Welding Process	1	3	0	0	2
COE	110	World of Work	1	0	0	0	1
COE	111	Co-Op Work Experience I	0	0	0	10	1
COE	112	Co-Op Work Experience I	0	0	0	20	2
COE	121	Co-Op Work Experience II	0	0	0	10	1

Motorsports Management Technology

Certificate Program

(C60270)

		Courses	Credit Hours
MSM	110	Introduction to Motorsports Management	3
CIS	110	Introduction to Computers	3

Select eight (8) hours from the following courses:

COE	111	Co-op Work Experience I	1
COE	112	Co-op Work Experience II	2
MSM	112	Engine/Drivetrain Fundamentals	2
MSM	212	Chassis/Handling Fundamentals	3
MSM	214	Fabrication Fundamentals	2
MSM	216	Organizational Mobility	2
MSM	218	Safety/Environment	2
MSM	220	Advanced Chassis Analysis	2
WLD	112	Basic Welding Processes	2

Total Semester Hours Credit:

14

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Networking Technology

Associate in Applied Science Degree
(A25340)

The Networking Technology curriculum prepares individuals for employment supporting network infrastructure environments. Students will learn how to use technologies to provide reliable transmission and delivery of data, voice, image, and video communications in business, industry, and education.

Course work includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers.

Graduates may find employment in entry-level jobs as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head John Brand at 704-216-3751, or send email to brandj@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
• CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
• NET	125	Networking Basics	1	4	0	0	3
• NET	126	Routing Basics	1	4	0	0	3
• NOS	110	Operating System Concepts	2	3	0	0	3
Total			9	15	0	0	16
First Year (Spring)							
ENG	114	Professional Research & Reporting	3	0	0	0	3
• NET	225	Routing & Switching I	1	4	0	0	3
• NET	226	Routing & Switching II	1	4	0	0	3
• NOS	130	Windows Single User	2	2	0	0	3
• NOS	230	Windows Administration I	2	2	0	0	3
Total			9	12	0	0	15
First Year (Summer)							
• BUS	110	Introduction to Business	3	0	0	0	3
---	---	Humanities Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
Total			6	0	0	0	6

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Fall)							
• CIS	115	Introduction to Programming & Logic	2	3	0	0	3
• NOS	120	Linux/UNIX Single User	2	2	0	0	3
• SEC	110	Security Concepts	3	0	0	0	3
---	---	Major Electives*	0-5	0-5	0	0-40	6
---	---	Social/Behavioral Science Elective (<i>p.162</i>)	3	0	0	0	3
Total			10-15	5-10	0	0-40	18

Second Year (Spring)

• CTS	120	Hardware/Software Support	2	3	0	0	3
• DBA	110	Database Concepts	2	3	0	0	3
MAT	115	Mathematical Models	2	2	0	0	3
OR							
MAT	140	Survey of Mathematics	3	0	0	0	3
OR							
MAT	161	College Algebra	3	0	0	0	3
• NET	289	Networking Project	1	4	0	0	3
---	---	Major Elective*	0-3	0-3	0	0-40	3
Total			7-11	10-15	0	0-40	15

Total Semester Hours Credit (SHC) in Program:**70**

• This is a Core course and cannot be substituted.

***Major Electives:**

Select 9 semester hour credits from the following courses. This may include up to 4 SHC from COE course/combination of courses.

Title			Class	Lab	Clinical	W Exp.	Credits
CTS	210	Computer Ethics	3	0	0	0	3
CTS	220	Advanced Hardware/Software Support	2	3	0	0	3
NET	175	Wireless Technology	2	2	0	0	3
NOS	220	Linux/UNIX Administration I	2	2	0	0	3
SEC	160	Secure Administration I	2	2	0	0	3
SEC	210	Intrusion Detection	2	2	0	0	3
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	211	Co-op Work Experience IV	0	0	0	10	1

Networking Technology

Diploma Program
(D25340)

Courses			Credit Hours
• BUS	110	Introduction to Business	3
• CIS	110	Introduction to Computers	3
• CIS	115	Intro. to Programming and Logic	3
• DBA	110	Database Concepts	3
• ENG	111	Expository Writing	3
• NET	289	Network Project	3
• NET	125	Networking Basics	3
• NOS	110	Operating System Concepts	3
• NOS	130	Windows Single User	3
• NOS	230	Windows Administration I	3
• NOS	120	Linux/UNIX Single User	3
• NOS	220	Linux/UNIX Administration I	3
• MAT	140	Survey of Mathematics	3
OR			
• MAT	161	College Algebra	3
OR			
• MAT	115	Mathematical Models	3
---	---	Social/Behavioral Science Elective (<i>p.162</i>)	3

Total Semester Hours Credit: **42**

- **This is a Core course.** A diploma offered for this program must have a minimum of 12 SHC extracted from the core courses of the A.A.S. degree. 12 SHC of these courses cannot be substituted.

Networking Technology

Certificate Programs
(C25340)

Courses			Credit Hours
Networking – Linux Track Certificate (C25340LI)			
• CIS	110	Introduction to Computers	3
• NOS	110	Operating System Concepts	3
• NOS	120	Linux/UNIX Single User	3
• NOS	220	Linux/UNIX Administration I	3
• NET	125	Networking Basics	3
Total Semester Hours Credit:			15
Networking – Microsoft Track Certificate (C25340MS)			
• CIS	110	Introduction to Computers	3
• NOS	110	Operating System Concepts	3
• NOS	130	Windows Single User	3
• NOS	230	Windows Administration I	3
• NET	125	Networking Basics	3
Total Semester Hours Credit:			15

Courses			Credit Hours
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Networking – Cisco Track Certificate (C25340CS)

NET	125	Networking Basics	3
NET	126	Routing Basics	3
NET	225	Routing & Switching I	3
NET	226	Routing & Switching II	3
Total Semester Hours Credit:			12

Networking – Hardware Certificate (C25340HW)

CIS	110	Introduction to Computers	3
CTS	120	Hardware/Software Support	3
CTS	220	Advanced Hardware/Software Support	3
NET	125	Networking Basics	3
OR			
NET	110	Networking Concepts	3
NOS	110	Operating System Concepts	3
Total Semester Hours Credit:			15

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Office Systems Technology

Associate In Applied Science Degree
(A25360)

The Office Systems Technology curriculum prepares individuals for positions in administrative support careers. It equips office professionals to respond to the demands of a dynamic computerized workplace.

Students will complete courses designed to develop proficiency in the use of integrated software, oral and written communication, analysis and coordination of office duties and systems, and other support topics. Emphasis is placed on non-technical as well as technical skills.

Graduates should qualify for employment in a variety of positions in business, government, and industry. Job classifications range from entry-level to supervisor to middle management.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Glenda Greene at 704-216-3773, or send an email to greeneg@rowancabarrus.edu.

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
BUS	137	Principles of Management	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
OST	131	Keyboarding	1	2	0	0	2
• OST	164	Text Editing Applications	3	0	0	0	3
OST	286	Professional Development	3	0	0	0	3
Total			13	4	0	0	15
First Year (Spring)							
ENG	114	Professional Research & Reporting	3	0	0	0	3
OST	132	Keyboarding Skill Building	1	2	0	0	2
• OST	134	Text Entry & Formatting	2	2	0	0	3
• OST	184	Records Management	1	2	0	0	2
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Social/Behavioral Sciences Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Elective*	0-3	0-2	0	0-30	3
Total			13-16	6-8	0	0-30	19

Title			Class	Lab	Clinical	W Exp.	Credits
Second Year (Fall)							
ACC	120	Principles of Financial Accounting	3	2	0	0	4
• CIS	110	Introduction to Computers	2	2	0	0	3
OST	135	Advanced Text Entry & Formatting	3	2	0	0	4
OST	136	Word Processing	1	2	0	0	2
OST	137	Office Software Applications	1	2	0	0	2
OST	223	Machine Transcription I	1	2	0	0	2
Total			11	12	0	0	17

Second Year (Spring)

COM	110	Introduction to Communications	3	0	0	0	3
OR							
COM	231	Public Speaking	3	0	0	0	3
MAT	115	Mathematical Models	2	2	0	0	3
OR							
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
OR							
BIO	168	Anatomy & Physiology I	3	3	0	0	4
OST	224	Machine Transcription II	1	2	0	0	2
OST	236	Advanced Word/Information Processing	2	2	0	0	3
• OST	289	Office Systems Management	2	2	0	0	3
---	---	Major Elective*	0-3	0-2	0	0-30	3
Total			10-15	8-11	0	0-30	17-19

Total Semester Hours Credit (SHC) in Program:

68-70

- This is a Core course and cannot be substituted.

*Major Electives:

Select 6 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

Title			Class	Lab	Clinical	W Exp.	Credits
BUS	115	Business Law I	3	0	0	0	3
BUS	121	Business Mathematics	2	2	0	0	3
BUS	230	Small Business Management	3	0	0	0	3
CIS	165	Desktop Publishing I	2	2	0	0	3
OST	122	Office Computations	1	2	0	0	2
OST	141	Medical Terminology I - Medical Office	3	0	0	0	3
OST	142	Medical Terminology II - Medical Office	3	0	0	0	3
OST	148	Medical Coding, Billing, and Insurance	3	0	0	0	3
OST	149	Medical Legal Issues	3	0	0	0	3
OST	284	Emerging Technology	1	2	0	0	2
COE	110	World of Work	1	0	0	0	1
COE	111	Co-Op Work Experience I	0	0	0	10	1
COE	112	Co-Op Work Experience I	0	0	0	20	2
COE	113	Co-Op Work Experience I	0	0	0	30	3
COE	121	Co-Op Work Experience II	0	0	0	10	1
COE	122	Co-Op Work Experience II	0	0	0	20	2
COE	131	Co-Op Work Experience III	0	0	0	10	1

Office Systems Technology

Diploma Program (D25360)

Courses		Credit Hours
BUS 137	Principles of Management	3
• CIS 110	Introduction to Computers	3
ENG 111	Expository Writing	3
ENG 114	Professional Research & Reporting	3
OST 131	Keyboarding	2
OST 132	Keyboarding Skill Building	2
• OST 134	Text Entry & Formatting	3
• OST 136	Word Processing	2
• OST 137	Office Software Applications	2
• OST 164	Text Editing Applications	3
• OST 184	Records Management	2
OST 236	Advanced Word/Information Processing	3
• OST 289	Office Systems Management	3
	Major Elective* (from A.A.S. Program)	3
Total Semester Hours Credit:		37

- This is a Core course and cannot be substituted.

Office Systems Technology

Certificate Program (C25360)

Courses		Credit Hours
OST 131	Keyboarding	2
OST 134	Text Entry & Formatting	3
OST 136	Word Processing	2
OST 137	Office Software Applications	2
OST 164	Text Editing Applications	3
OST 184	Records Management	2
Total Semester Hours Credit:		14

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Practical Nursing

Diploma Program
(D45660)

The Practical Nursing curriculum prepares individuals with the knowledge and skills to provide nursing care to children and adults.

Students will participate in assessment, planning, implementing, and evaluating nursing care.

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

The following Admission Requirements are not eligible for appeal and are subject to change:

ADMISSION REQUIREMENTS:

Please note important deadlines for applying to the nursing programs. Admission requirements will be finalized by February 1 of each year for the subsequent year. Program requirements will be finalized by August 1 of each year for the subsequent year.

In addition to the general enrollment process for Rowan-Cabarrus Community College, the applicant must complete the following:

1. To be considered for the nursing class beginning August of each year, all applicants must:
 - a. Submit an "Interest Form" to the Admissions Office February 1 – October 1 of the previous year. Interest Forms will be available at the Information Session in Student Services, or at the Health Programs website.
 - b. Meet admission requirements (1-7) prior to January 1 of the year to be admitted.
***Example: Applicant wants to be considered for admission August, 2009:
(1) applicant must complete admission criteria (1-7) prior to January 1, 2009;
(2) applicant must submit an Interest Form February 1-October 1, 2008.***
 - c. Applicants will be admitted based on a competitive selection process.
 - d. All applicants who are not accepted must re-submit an Interest Form during the following time period of February 1 - October 1, to be considered for the next year's class.
2. Attend one (1) of three (3) Nursing Information Sessions offered by the nursing education faculty annually, in order to make informed decisions regarding their program selection (must be within one year of the admission date).
3. At the end of the Information Session, all applicants must complete the "Program Survey" form and must sign the "Statement of Understanding Regarding Acceptance for Clinical Training" during the Advisement Lab. The clinical training statement pertains to submission of a required criminal history report and mandatory drug screen. Please realize that for admission to the program, a criminal background check will be required. A negative review may prevent students from participating in clinical practice (which means that they cannot complete program requirements). **FAILURE TO ATTEND WILL DELAY THE ADMISSION PROCESS.** Applicants should direct all questions regarding the program requirements to their assigned nursing faculty advisors. All applicants will be required to sign in.
4. Submit evidence of high school graduation and transcript of grades, as well as GED scores, and college transcripts, if applicable. In regards to transfer credit (or credit previously earned at RCCC), related courses within the nursing curriculum – BIO and PSY – must be within five years of January 1 of the admission year.

5. Present evidence of successful completion of the following within the last five years:
 - a. Biology – high school or BIO 106 or higher at a college level
 - b. Chemistry – high school or CHM 090 or higher at a college level
 - c. Computer – CIS 110 or make an acceptable score on the RCCC Technical Proficiency Exam (TPE)
6. Be academically prepared to enroll in ENG 111, Expository Writing, and show proficiency in the mathematics area (Algebra I). All applicants for admission into the nursing programs can satisfy this requirement by meeting one criterion from each of the following areas: NOTE: Placement test scores, remedial course work, and demonstrated proficiency in mathematics (Algebra I) must be acquired within the last 5 years of January 1 of the admission year.

Writing

- Standard score of 42 or higher on the ASSET Writing
or
- Standard score of 71 or higher on the COMPASS Writing
or
- Satisfactory completion of ENG 090
or
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) course in English composition
or
- SAT Writing score of 500 or ACT Writing score of 21
(completed within five years of January 1 of the admission year)

Reading

- Standard score of 42 or higher on the ASSET Reading Skills
or
- Standard score of 81 or higher on the COMPASS Reading Comprehension
or
- Satisfactory completion (grade C or higher) of a college-level (associate degree or higher) course in English composition
or
- Satisfactory completion of RED 090
or
- SAT Reading score of 500 or ACT Reading score of 21
(completed within 5 years of January 1 of the admission year)

Math-Numerical Skills

- Standard score of 42 or higher on the ASSET Numerical Skills
or
- Standard score of 47 or higher on the COMPASS Pre-algebra
or
- Satisfactory completion of MAT 060
or
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) math course
or
- SAT Math score of 500 or ACT Math score of 21
(completed within five years of January 1 of the admission year)

Math-Elementary Algebra

- Standard score of 42 or higher on the ASSET Elementary Algebra + 42 or higher on the Numerical Skills
or
- Standard score of 46 or higher on the COMPASS Algebra + 47 or higher on the Pre-algebra
or
- Satisfactory completion of MAT 070
or
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) math course within the last five years
or
- SAT Math score of 500 or ACT Math score of 21
(*completed within five years of January 1 of the admission year*)

The applicant is limited to testing twice in a twelve-month period (initial test and one re-test). Placement test requirements can be met by successfully completing the remedial courses recommended after COMPASS/ASSET testing. Students who have withdrawn from the nursing education program due to academic reasons may be required to re-test and meet minimum acceptable scores. Specific placement re-test requirements will be based on individual academic deficiencies (see PN Competency Standards). Applicants should check with the Admissions Office if they have any questions related to testing.

7. Provide evidence of successful completion of a current, non-restrictive North Carolina Nurse Aide I listing. Student must remain current in NC Nurse Aide I listing throughout the nursing program. For information on Nurse Aide I training, contact RCCC Continuing Education at 704-216-3657.
8. Applicants meeting admission requirements (1-7) prior to January 1 and submitting an Interest Form from February 1 – October 1 of the previous year will be eligible for the Health Occupations Basic Entrance Test (HOBET). The college reserves the right to extend the deadline date if necessary to secure qualified applicants for program admission. Testing dates will be provided.
 - Testing fee must be paid in the Business Office prior to testing
 - A photo ID is required for entrance to the test
 - Study guides will be available for purchase in the RCCC bookstore (North and South campuses)

Selection Criteria

Admission into the nursing program is *competitive*. The higher the applicant's HOBET scores, the greater the opportunity for selection. Scores at or above the current national passing standard will be utilized to rank the applicant for selection into the Nursing program(s). Applicants must take the current HOBET test; only current test scores will be used to rank the applicants.

Applicants who do not acquire the current national passing standard for math and reading components of the test during the initial testing period or who desire to improve their score will be eligible for one (1) re-test within the allotted admission selection time period of that year.

The applicant's highest reading and math score, which constitute the Composite score, will be utilized and evaluated for program selection.

In the event that the applicants have identical HOBET scores, the HOBET reading component will be used to further rank the applicant for the nursing program selection.

Alternate List for the Nursing Program

Applicants not offered Tentative Program Placement will be ranked, placed on an alternate list and will be admitted in that order, if space becomes available. Applicants remaining after the fall class has been filled will not be carried over to a waiting list the following year(s); they will have to reapply, meet current admission requirements, retest, and will be ranked with the applicants for the next year.

9. When items 1-8 have been successfully met, the applicant's file is reviewed by the Admissions Committee and tentative program placement is established. Full acceptance/admission into the Nursing program is not granted until the applicant completes the following items:
 - a. Satisfactory completion of the Readiness for Nursing course (grade of 77 or higher) that will be offered through the Continuing Education Program. All applicants will be required to attend one of three five-week sessions offered. Days and times will be provided through Continuing Education. In order to get credit for the course, no absences are permitted. The sessions will be scheduled beginning the month of April and ending during the first of July. Class sessions will be restricted in class size to no more than 35 per class. Early registration is advised in order to ensure enrollment and to meet this prerequisite for admission into the nursing programs.
 - b. Criminal Background History Report as required by clinical sites. RCCC Admission Office will provide directives for securing the report.
 - c. Completed physical examination form (exam within the last 6 months) that provides evidence of satisfactory physical, emotional, and mental health. Pre-admission drug screening is required (see Evaluation of Physical and Emotional health guidelines and Procedure Regarding Acceptance for Clinical Training for Health Programs). Problematic areas will be handled on an individual basis by the Director of Nursing Education after consultation with clinical affiliates.
 - d. Certification in basic life support, CPR, at the Health Care Provider level (adult, child, and infant). Certification can be obtained through Continuing Education and must be maintained throughout the NUR course sequence.
 - e. All applicants' admission data, including health form, CPR verification, and criminal background check, must be finalized ten (10) business days prior to the first day of fall semester due to required diagnostic testing and reporting of results. Final approval for admission has to be granted by the Director of Nursing Education.
 - f. All students are required to attend the Fire Safety/Infection Control seminar scheduled in August, prior to the beginning of fall semester (date will be announced). There will be no make-up sessions provided and no exceptions. Failure to attend this required clinical seminar will prevent the student from entering NUR 101.
10. When problematic, physical, or mental health conditions exist, faculty may require timely medical reports from the student's physician confirming that the individual is physically and mentally competent to enter, or continue, in the Nursing program.

Re-entry Students

Students unable to continue in the Nursing Program course sequence may re-apply to the Nursing Program one time. The student desiring to reapply to the program must do so within one year and will be re-evaluated for program placement based on individual circumstances and program requirements.

Acceptance is contingent upon:

- a. Meeting the current admission, advanced placement and graduation requirements in effect at the time of re-application. (HOBET scores that are within two years of re-entry and are at or above the current passing national average will be exempt in satisfying this PN admission criteria.)
- b. Availability of space.

Final approval for re-entry has to be granted by the Director of Nursing Education following a thorough review of the student's record by the nursing faculty. The Director of Nursing Education will communicate the faculty's decision to the Admissions Committee.

Advanced Placement Students

Students applying to enter the program in an advanced placement status must follow requirements stated in the Advanced Placement Policy and stipulations specified for admission. Failure to meet pre-requisite requirements will result in denial of admission. Advanced placement for college transfer students is for first level courses only in order to meet RCCC residency requirements. Final approval for advanced placement admission has to be granted by the Director of Nursing Education following a thorough review of the student's record by the nursing faculty. The Director of Nursing Education will communicate the faculty's decision to the Admission Committee.

NON-DISCRIMINATION POLICY:

Rowan-Cabarrus Community College does not discriminate in its admissions policies and procedures on the basis of sex, race, color, national origin, age, religion, or handicap.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Director of Nursing Education Cathy Norris at 704-216-3701, or send an email to norrisc@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
Fall Semester							
** BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
• NUR	101	Practical Nursing I	7	6	6	0	11
** PSY	110	Life Span Development	3	0	0	0	3
Total			14	8	6	0	19
Spring Semester							
ENG	111	Expository Writing	3	0	0	0	3
• NUR	102	Practical Nursing II	8	0	12	0	12
Total			11	0	12	0	15
Summer Term							
• NUR	103	Practical Nursing III	6	0	12	0	10
Total			6	0	12	0	10

Total Semester Hours Credit (SHC) in Program: 44

- This is a Core course and cannot be substituted.

**Students planning to transfer to the ADN Completion program should take the following:
BIO 168, BIO 169, PSY 150, PSY 241.

Note: Clinical rotations in NUR courses may be scheduled during weekdays, evenings, or weekends.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Radiography

Associate In Applied Science Degree

(A45700)

The Radiography curriculum prepares the graduate to be a radiographer, a skilled health care professional who uses radiation to produce images of the human body.

Course work includes clinical rotations to area health care facilities, radiographic exposure, image processing, radiographic procedures, physics, pathology, patient care and management, radiation protection, quality assurance, anatomy and physiology, and radiobiology.

Graduates of accredited programs are eligible to apply to take the American Registry of Radiologic Technologists' national examination for certification and registration as medical radiographers. Graduates may be employed in hospitals, clinics, physicians' offices, medical laboratories, government agencies, and industry.

The following Admission Requirements are not eligible for appeal and are subject to change:

ADMISSION REQUIREMENTS:

Please note important deadlines for applying to the radiography program. Admission requirements will be finalized by February 1 of each year for the subsequent year. Program requirements will be finalized by August 1 of each year for the subsequent year.

In addition to the general enrollment process for Rowan-Cabarrus Community College, the applicant must complete the following:

1. To be considered for the Radiography class beginning August of each year, all applicants must:
 - a. Submit an "Interest Form" to the Admissions Office February 1 – October 1 of the previous year. Interest Forms will be available at the Information Session, in Student Services, or at the Health Programs website.
 - b. Meet admission requirements (1-5) prior to January 1 of the year to be admitted.
*Example: Applicant wants to be considered for admission August, 2009:
(1) applicant must complete admission criteria (1-5) prior to January 1, 2009;
(2) applicant must submit an Interest Form February 1-October 1, 2008.*
 - c. Applicants will be admitted based on a competitive selection process.
 - d. All applicants who are not accepted must re-submit an Interest Form during the following time period of February 1 - October 1, to be considered for the next year's class.
2. Attend one (1) of three (3) Radiography Information Sessions offered annually by the Radiography program head, in order to make informed decisions regarding the applicant's program selection. **FAILURE TO ATTEND WILL DELAY THE ADMISSION PROCESS.** Applicants should direct all questions regarding the program requirements to their assigned Radiography faculty advisors. All applicants will be required to sign in.

All applicants must also complete the "Program Survey" form and must sign the "Statement of Understanding Regarding Acceptance for Clinical Training" during the RAD Information Session. The clinical training statement pertains to submission of a required criminal history report and mandatory drug screen. Please realize that for admission to the program, a criminal background check will be required. A negative review may prevent students from participating in clinical practice (which means that they cannot complete program requirements).

- a. Applicants must attend an Information Session the year prior to potential program entry. This means that if applicants attended an information session two years ago and want to be considered for fall 2009 entry, they must attend an Information Session in 2008.
3. Submit evidence of high school graduation and transcript of grades, as well as GED scores, and college transcripts, if applicable. In regards to transfer credit (or credit previously earned at RCCC), related courses within the Radiography curriculum – BIO and MAT – must be within five years of January 1 of the admission year.
4. Present evidence of successful completion of the following within the last five years:
 - a. Biology – high school or any BIO at a college level (Note: BIO 168 and BIO 169 are required major courses.)
 - b. Chemistry – high school or CHM 090 or higher at a college level
or
Physics – high school or college level
 - c. Computer – CIS 110 or make an acceptable score on the RCCC Technical Proficiency Exam (TPE)
5. Be academically prepared to enroll in ENG 111, Expository Writing, and one of the following math courses: MAT 161 or MAT 140. All applicants for admission into the Radiography program can satisfy this requirement by meeting one criterion from each of the following areas: NOTE: Placement test scores, remedial course work, and demonstrated proficiency in mathematics (Numerical/Pre-Algebra and Algebra I) must be acquired within the last five years of January 1 of the admission year.

Writing

- Standard score of 42 or higher on the ASSET Writing
or
- Standard score of 71 or higher on the COMPASS Writing
or
- Satisfactory completion of ENG 090
or
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) course in English composition
or
- SAT Writing score of 500 or ACT Writing score of 21
(completed within five years of January 1 of the admission year)

Reading

- Standard score of 42 or higher on the ASSET Reading Skills
or
- Standard score of 81 or higher on the COMPASS Reading Comprehension
or
- Satisfactory completion (grade C or higher) of a college-level (associate degree or higher) course in English composition
or
- Satisfactory completion of RED 090
or
- SAT Reading score of 500 or ACT Reading score of 21
(completed within five years of January 1 of the admission year)

Math-Numerical/Pre-Algebra Skills

- Standard score of 42 or higher on the ASSET Numerical Skills
or
- Standard score of 47 or higher on the COMPASS Pre-algebra
or
- Satisfactory completion of MAT 060
or
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) math course
or
- SAT Math score of 500 or ACT Math score of 21
(*completed within five years of January 1 of the admission year*)

Math-Elementary Algebra

- Standard score of 42 or higher on the ASSET Elementary Algebra + 42 or higher on the Numerical Skills
or
- Standard score of 46 or higher on the COMPASS Algebra + 47 or higher on the Pre-algebra
or
- Satisfactory completion of MAT 070
or
- Satisfactory completion (grade C or higher) of at least one college-level (associate degree or higher) math course within the last 5 years
or
- SAT Math score of 500 or ACT Math score of 21
(*completed within five years of January 1 of the admission year*)

The applicant is limited to testing twice in a twelve-month period (initial test and one re-test). Placement test requirements can be met by successfully completing the remedial courses recommended after COMPASS/ASSET testing. Students who have withdrawn from the Radiography program due to academic reasons may be required to re-test and meet minimum acceptable scores. Specific placement re-test requirements will be based on individual academic deficiencies. Applicants should check with the Admissions Office if they have any questions related to testing.

6. Applicants meeting admission requirements (1-5) prior to January 1 and submitting an Interest Form from February 1 – October 1 of the previous year will be eligible for the Health Occupations Basic Entrance Test (HOBET). The college reserves the right to extend the deadline date if necessary to secure qualified applicants for program admission. Testing dates will be provided.

- Testing fee must be paid in the Business Office prior to testing
- A photo ID is required for entrance to the test
- Study guides will be available for purchase in the RCCC bookstore (North and South campuses)

Selection Criteria

Admission into the Radiography program is *competitive*. The higher the applicant's HOBET scores, the greater the opportunity for selection. Scores at or above the current national passing standard will be utilized to rank the applicant for selection into the Radiography program. Applicants must take the current HOBET test; only current test scores will be used to rank the applicants.

Applicants who do not acquire the current national passing standard for math and reading components of the test during the initial testing period or who desire to improve their score will be eligible for one (1) re-test within the allotted admission selection time period of that year.

The applicant's highest reading and math score, which constitutes the Composite score, will be utilized and evaluated for program selection.

In the event that the applicants have identical HOBET scores, the HOBET reading component will be used to further rank the applicant for the Radiography program selection.

Alternate List for the Radiography Program

Applicants not offered Tentative Program Placement will be ranked, placed on an alternate list and will be admitted in that order, if space becomes available. Applicants remaining after the fall class has been filled will not be carried over to a waiting list the following year(s); they will have to reapply, meet current admission requirements, retest, and will be ranked with the applicants for the next year.

7. When items 1-6 have been successfully met, the applicant's file is reviewed by the Admissions Committee and tentative program placement is established. Full acceptance/admission into the Radiography program is not granted until the applicant completes the following items:
 - a. Completed physical examination form (exam within the last 6 months) that provides evidence of satisfactory physical, emotional, and mental health. Pre-admission drug screening is required. The Hepatitis B vaccination series is strongly recommended.
 - b. Criminal Background History Report as required by clinical sites. RCCC Admissions Office will provide directives for securing the report.
 - c. Certification in basic life support, CPR, at the Health Care Provider level (adult, child, and infant). Certification can be obtained through Continuing Education and must be maintained throughout the RAD course sequence.
 - d. All applicants' admission data, including health form, CPR verification, and criminal background check, must be finalized prior to student beginning any clinical rotations.
8. When problematic, physical, or mental health conditions exist, faculty may require timely medical reports from the student's physician confirming that the individual is physically and mentally competent to enter, or continue, in the Radiography program.

Re-entry Students

Students who exit the Radiography program prior to completion can apply for re-entry within one year of exit from the program. Students may request re-entry one time only. Final approval for re-entry admission has to be granted by the Radiography Program Head. Re-entry will be contingent upon meeting appropriate HOBET scores.

NON-DISCRIMINATION POLICY:

Rowan-Cabarrus Community College does not discriminate in its admissions policies and procedures on the basis of sex, race, color, national origin, age, religion, or handicap.

MISSION STATEMENT:

The Radiography program will offer a five semester competency-based education in medical imaging which will prepare all students to successfully provide quality radiographic care and duties to patients, health care consumers, colleagues, employers and all members of the health care team in the college's regional community and beyond.

Program Values

The Radiography program at Rowan-Cabarrus Community College values:

- Compassion
- Clinical Skills
- Knowledge
- Ethical Professionalism
- Quality Care

Program Goals

- Students will be successful with certification exam.
- Students will be competent in clinical practice.
- Students will demonstrate critical thinking in patient interaction.
- Students are committed to lifelong learning.
- Students will demonstrate professional, ethical, and quality care to their employers, regional community, and beyond.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Frankie Lyons at 704-216-3719, or send an email to lyonsf@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
BIO	168	Anatomy and Physiology I	3	3	0	0	4
• RAD	110	Radiography Intro. & Patient Care	2	3	0	0	3
• RAD	111	Radiographic Procedures I	3	3	0	0	4
• RAD	151	RAD Clinical Education I	0	0	6	0	2
MAT	140	Survey of Mathematics	3	0	0	0	3
OR							
MAT	161	College Algebra	3	0	0	0	3
Total			11	9	6	0	16
First Year (Spring)							
BIO	169	Anatomy and Physiology II	3	3	0	0	4
ENG	111	Expository Writing	3	0	0	0	3
• RAD	112	Radiographic Procedures II	3	3	0	0	4
• RAD	121	Radiographic Imaging I	2	3	0	0	3
• RAD	161	RAD Clinical Education II	0	0	15	0	5
Total			11	9	15	0	19
First Year (Summer)							
• RAD	122	Radiographic Imaging II	1	3	0	0	2
• RAD	131	Radiographic Physics I	1	3	0	0	2
• RAD	171	RAD Clinical Education III	0	0	12	0	4
Total			2	6	12	0	8

Second Year (Fall)

PSY	150	General Psychology	3	0	0	0	3
• RAD	211	Radiographic Procedures III	2	3	0	0	3
• RAD	231	Radiographic Physics II	1	3	0	0	2
• RAD	241	Radiobiology/Protection	2	0	0	0	2
• RAD	251	RAD Clinical Education IV	0	0	21	0	7
Total			8	6	21	0	17

Second Year (Spring)

COM	231	Public Speaking	3	0	0	0	3
• RAD	245	Radiographic Quality Management	1	3	0	0	2
• RAD	261	RAD Clinical Education V	0	0	21	0	7
• RAD	271	Radiography Capstone	0	3	0	0	1
---	---	Humanities/Fine Arts Elective (p.162)	3	0	0	0	3
Total			7	6	21	0	16

Total Semester Hours Credit (SHC) in Program:

76

- This is a Core course and cannot be substituted.

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Real Estate Licensing

Certificate Program (C25480)

The Real Estate Licensing curriculum provides licensing education required by the North Carolina Real Estate Commission for students preparing to take the real estate license examination and for provisional brokers that are seeking removal of the provisional status.

Course work includes the practices and principles of real estate, broker relationships as they apply to customers, sellers and buyers, contract procedures, fair housing and real estate methodology. Course work also includes professional development opportunities.

Graduates who have passed the real estate license examination and obtained a real estate provisional broker license should then qualify for removal of the provisional status and be able to provide basic, residential real estate services as a broker affiliated with a real estate brokerage firm.

A student must secure his/her provisional broker license before proceeding into the post-licensure courses and must complete the three mandatory post-licensing courses within three years of licensure in order to avoid cancellation of his/her license.

Admission Requirements and Special Notations:

RLS 112 (Real Estate) Broker Prelicensing course is the only course which must be completed successfully in order to apply to the North Carolina Real Estate Commission to take the state license examination. There is no prerequisite. Each newly licensed broker will be classified as a "provisional broker." The postlicensing education must be completed within three years of initial licensure in order to remove the "provisional" status and to retain the broker license. The basic prerequisite for enrollment in any of the three broker postlicensing courses (Broker Relationships, Contracts and Closing, or Select Real Estate Issues) is a North Carolina real estate license on provisional status or license reinstatement. Students will be prohibited from taking two or more postlicensing courses simultaneously if such enrollment would result in the student being in postlicensing classes for more than 21 classroom hours in any given seven-day period.

There are 80 class hours in RCCC's Broker Prelicensing course, 32 class hours in each postlicensing course, and 32 class hours in the Real Estate Mathematics course. Those who complete Broker Prelicensing (RLS 112), Broker Relationships (RLS 121), Contracts and Closing (RLS 122), Select Real Estate Issues (RLS 123) and Real Estate Mathematics (RLS 113) earn an RCCC Real Estate Licensing certificate.

Individuals applying to the Real Estate Commission to take the state license examination must have proof of successful completion of the prelicensing course submitted electronically to the Commission by the course provider. RCCC also provides a course completion certificate to each student as proof of appropriate prelicensing and postlicensing education. RCCC's passing grade for the prelicensing course is 80%. RCCC's passing grade for the postlicensing courses and mathematics course is 75%. Students should also be aware that the Commission

requires students to attend at least 80% of the scheduled hours of instruction in the prelicensing course and all three postlicensing courses.

The 80 class hours of the Broker Prelicensing course will be taught in an 8-week minimester with two 5-hour classes per week (day) or in a 16-week semester with one 5-hour class per week (evening and Saturday). The broker postlicensing courses (Broker Relationships, Contracts & Closing, and Select Real Estate Issues) each having 32 class hours will be taught in a 4-week format with two 4-hour classes per week or an 8-week format with one 4-hour class per week. The Real Estate Mathematics course will be taught in either a 16-week semester with one 2-hour class or an 8-week minimester with two 2-hour classes per week. The Broker Prelicensing course will be taught during the Fall and Spring Semesters (depending upon adequate enrollment and the availability of an instructor). The broker postlicensing courses will be offered year round.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Lois Branning at 704-216-3755, or send an email to branningl@rowancabarrus.edu.

Title			Class	Lab	Clinical	W Exp.	Credits
• RLS	112	Broker Prelicensing	5	0	0	0	5
RLS	113	Real Estate Mathematics	2	0	0	0	2
• RLS	121	Broker Relationships (postlicensing)	2	0	0	0	2
• RLS	122	Contracts and Closing (postlicensing)	2	0	0	0	2
• RLS	123	Select Real Estate Issues (postlicensing)	2	0	0	0	2
Total			13	2	0	0	13

Total Semester Hours Credit (SHC) in Program: 13

- This is a Core course and cannot be substituted.

Web Technologies

Associate in Applied Science Degree
(A25290)

The Web Technologies curriculum prepares graduates for careers in the information technology arena using computers and distributed computing to disseminate and collect information via the web.

Course work in this program covers the terminology and use of computers, network devices, networks, servers, databases, applications, programming languages, as well as web applications, site development and design. Studies will provide opportunity for students to learn related industry standards.

Graduates should qualify for career opportunities as designers, administrators, or developers in the areas of web applications, websites, web services, and related areas of distributed computing.

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Dr. Scott Nason at 704-216-3784, or send an email to nasons@rowancabarrus.edu.

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

		Title	Class	Lab	Clinical	W Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
•	CIS 110	Introduction to Computers	2	2	0	0	3
•	NOS 110	Operating Systems Concepts	2	3	0	0	3
•	WEB 110	Internet/Web Fundamentals (2nd 8 Weeks)	2	2	0	0	3
	WEB 119	Web Technologies Program Orient. (1st 8 Weeks)	1	2	0	0	2
•	WEB 120	Introduction to Internet Multimedia	2	2	0	0	3
Total			9	13	0	0	15
First Year (Spring)							
•	DBA 110	Database Concepts	2	3	0	0	3
•	NET 110	Networking Concepts (1st 8 Weeks)	2	2	0	0	3
•	WEB 115	Web Markup and Scripting (1st 8 Weeks)	2	2	0	0	3
•	WEB 140	Web Development Tools (2nd 8 Weeks)	2	2	0	0	3
•	WEB 230	Implementing Web Services (2nd 8 Weeks)	2	2	0	0	3
Total			10	11	0	0	15

Title			Class	Lab	Clinical	W Exp.	Credits
First Year (Summer)							
• BUS	110	Introduction to Business	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	115	Mathematical Models	2	2	0	0	3
OR							
MAT	140	Survey of Mathematics	3	0	0	0	3
OR							
MAT	161	College Algebra	3	0	0	0	3
OR							
MAT	175	Precalculus	4	0	0	0	4
---	---	Social/Behavioral Science Elective (<i>p.162</i>)	3	0	0	0	3
Total			11-13	0-2	0	10	12-13

Second Year (Fall)

ENG	112	Argument-Based Research	3	0	0	0	3
OR							
ENG	114	Professional Research & Reporting	3	0	0	0	3
• SEC	110	Security Concepts	3	0	0	0	3
• WEB	210	Web Design	2	2	0	0	3
• WEB	250	Database Driven Websites	2	2	0	0	3
---	---	Major Elective*	0-2	0-2	0	0-40	3
Total			10-12	4-6	0	0-40	15

Second Year (Spring)

• CIS	115	Introduction to Programming & Logic	2	3	0	0	3
WEB	260	E-Commerce Infrastructure	2	2	0	0	3
WEB	287	Web-E-Portfolio	1	2	0	0	2
---	---	Humanities/Fine Arts Elective (<i>p.162</i>)	3	0	0	0	3
---	---	Major Elective*	0-2	0-2	0	0-40	3
Total			8-10	7-9	0	0-40	14

Total Semester Hours Credit (SHC) in Program:**71-72**

- This is a Core course and cannot be substituted.

***Major Electives:**

Select 6 semester hour credits from the following courses. This may include up to 6 SHC from COE course/combination of course.

Title			Class	Lab	Clinical	W Exp.	Credits
CTS	240	Project Management	2	2	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
NOS	130	Windows Single User	2	2	0	0	3
NOS	220	Linux/UNIX Administration I	2	2	0	0	3
NOS	230	Windows Administration I	2	2	0	0	3
WEB	111	Introduction to Web Graphics	2	2	0	0	3
WEB	211	Advanced Web Graphics	2	2	0	0	3

Title			Class	Lab	Clinical	W Exp.	Credits
WEB	289	Internet Technologies Project	1	4	0	0	3
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	211	Co-op Work Experience IV	0	0	0	10	1

Web Technologies

Diploma Program
(D25290)

Courses			Credit Hours
• CIS	110	Introduction to Computers	3
ENG	111	Expository Writing	3
HUM	110	Technology and Society	3
MAT	140	Survey of Mathematics	3
OR			
MAT	161	College Algebra	3
• NET	110	Networking Concepts	3
• WEB	110	Internet/Web Fundamentals	3
WEB	111	Introduction to Web Graphics	3
• WEB	115	Web Markup and Scripting	3
WEB	119	Web Technologies Program Orientation	2
• WEB	120	Introduction to Internet Multimedia	3
• WEB	140	Web Development Tools	3
• WEB	210	Web Design	3
WEB	211	Advanced Web Graphics	3

Total Semester Hours Credit: 38

- This is a Core course and cannot be substituted.

Web Technologies

Certificate Programs (C25290)

Courses			Credit Hours
Internet Technologies Certificate (C25290IN)			
CIS	110	Introduction to Computers	3
WEB	110	Internet/Web Fundamentals	3
WEB	115	Web Markup and Scripting	3
NET	110	Networking Concepts	3
		OR	
NET	125	Networking Basics	3
Total Semester Hours Credit			12
Web Designer Certificate (C25290DS)			
WEB	110	Internet/Web Fundamentals	3
WEB	115	Web Markup and Scripting	3
WEB	140	Web Development Tools	3
WEB	210	Web Design	3
Total Semester Hours Credit			12
Web Graphics Certificate (C25290GR)			
WEB	110	Internet/Web Fundamentals	3
WEB	111	Introduction to Web Graphics	3
WEB	120	Introduction to Internet Multimedia	3
WEB	211	Advanced Web Graphics	3
Total Semester Hours Credit			12
Website Designer Certificate (C25290WD)			
WEB	110	Internet/Web Fundamentals	3
WEB	111	Introduction to Web Graphics	3
WEB	115	Web Markup and Scripting	3
WEB	230	Implementing Web Services	3
Total Semester Hours Credit			12

This program offers various courses via distance education. See pages 66-73 for a listing of these courses.

Welding Technology

Diploma Program (D50420)

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

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

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

For the most current information regarding this program, please visit the RCCC Programs of Study website at www.rowancabarrus.edu/programs/, or contact Program Head Robert Simpson at 704-216-3921, or send an email to simpsonr@rowancabarrus.edu.

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

Title			Class	Lab	Clinical	W Exp.	Credits
Fall Semester Basic Certificate (C50420BC)							
CIS	110	Introduction to Computers	2	2	0	0	3
• WLD	110	Cutting Processes	1	3	0	0	2
• WLD	115	SMAW (Stick) Plate	2	9	0	0	5
• WLD	131	GTAW (TIG) Plate	2	6	0	0	4
Total			7	20	0	0	14
Spring Semester Intermediate Certificate (C50420IN)							
WLD	116	SMAW (Stick) Plate/Pipe	1	9	0	0	4
• WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	132	GTAW (TIG) Plate/Pipe	1	6	0	0	3
• WLD	141	Symbols & Specifications	2	2	0	0	3
Total			6	23	0	0	14

Title			Class	Lab	Clinical	W Exp.	Credits
Summer Term Advanced Certificate (C50420AD)							
* ENG	102	Applied Communications II	3	0	0	0	3
MAT	115	Mathematical Models	2	2	0	0	3
OR							
PHY	110	Conceptual Physics	3	0	0	0	3
WLD	122	GMAW (MIG) Plate/Pipe	1	6	0	0	3
WLD	151	Fabrication I	2	6	0	0	4
Total			8-9	12-14	0	0	13

Total Semester Hours Credit (SHC) in Program: 41

- **This is a Core course and cannot be substituted.**

**It is suggested that students take ENG 102 and the general education elective prior to Summer Term, if possible.*

For students not wishing to follow the program of study sequence listed above to earn a diploma, it is suggested that WLD 110 Cutting Processes be taken in the first semester. WLD 110 Cutting Processes will benefit students taking other welding classes.

Upon successful completion of the Basic, Intermediate, and Advanced Certificates, students may apply for a Diploma in Welding Technology.

Upon completion of any of the welding certificates or diploma, students with an average grade point of 3.0 or higher in the welding classes will be given the opportunity to take the welder qualification test (certification test) to applicable codes used in this program.

Welding Technology

Certificate Programs (C50420)

Courses		Credit Hours
Stick Welding Certificate (C50420ST)		
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
WLD 116	SMAW (Stick) Plate/Pipe	4
WLD 141	Symbols and Specifications	3
Total Semester Hours Credit:		14
TIG Welding Certificate (C50420TI)		
WLD 110	Cutting Processes	2
WLD 131	GTAW (TIG) Plate	4
WLD 132	GTAW (TIG) Plate/Pipe	3
WLD 141	Symbols and Specifications	3
Total Semester Hours Credit:		12
MIG Welding Certificate (C50420MI)		
WLD 110	Cutting Processes	2
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 122	GMAW (MIG) Plate/Pipe	3
WLD 141	Symbols and Specifications	3
Total Semester Hours Credit:		12
High Performance Fabrication Certificate (C50420HP)		
WLD 110	Cutting Processes	2
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 131	GTAW (TIG) Plate	4
WLD 141	Symbols and Specifications	3
Total Semester Hours Credit:		13

CUSTOMIZED CERTIFICATES:

If the above certificates do not fit a student's needs, certificates are available upon completion of WLD 110 Cutting Processes, WLD 141 Symbols and Specifications, and selected other WLD prefix courses (excluding WLD 112). These certificates must contain 12-18 semester credit hours as designated for the Welding Technology curriculum program. Contact the Welding Technology program head for details.



Course Descriptions

The courses listed on the following pages constitute the content of the curriculum programs of the college and are listed in alphabetical and numerical order under discipline titles. Titles are listed in alphabetical order. Credit hours are awarded as follows:

- a. Credit of one semester hour is awarded for each 16 hours of "class work." Class work is lecture and other classroom instruction. Class work is under the supervision of an instructor.
- b. Credit of one semester hour is awarded for each 32 hours of "experiential laboratory work." Experiential laboratory work means instruction given to a student by an instructor to increase the student's knowledge and skills without immediate student application.
- c. Credit of one semester hour is awarded for each 48 hours of "faculty-directed laboratory work." Faculty-directed laboratory work involves structured and coordinated demonstration by an instructor with immediate student application.
- d. Credit of one semester hour is awarded for each 48 hours of "clinical practice." Clinical practice is a structured, faculty-directed learning experience in a health sciences program which develops job proficiency. Clinical practice requires significant preparation, coordination, and scheduling by the faculty and is under the supervision of an instructor or preceptor who is qualified for the particular program.
- e. Credit of one semester hour is awarded for each 160 hours of "work experience" such as cooperative education, practicums, and internships. Work experience involves the development of job skills by providing the student with employment that is directly related to, and coordinated with, the educational program. Student activity in work experience is planned and coordinated by a college representative, and the employer is responsible for the control and supervision of the student on the job.

The contact hours for a course are the sum of the lecture hours and lab/clinical/work experience hours.

Provided for each course is the following information: course prefix and number, title, frequency the courses are scheduled to be offered, the number of lecture hours and the number of laboratory hours each week, and the number of semester hours credit. The frequency courses are scheduled to be offered is indicated by symbols.

F	Fall	First Line	Day
S	Spring	Second Line	Evening
SU	Summer		
On Demand	On Demand		
TBA	To Be Announced		

The college reserves the right to cancel or reschedule any course due to student enrollment patterns.

Non-credit courses are numbered below 100.

Telecourse (See pg. 72 for description)

Internet course (See pg.66 for description)

Hybrid course (See pg. 69 for description)

Writing Intensive course

Writing intensive courses are courses in which students write to learn. Writing assignments may range from the highly informal, such as journals, to the highly formal, such as research papers. Normally, a writing intensive course will contain a mixture of informal and formal writing assignments which will account for at least seventy percent of a student's overall evaluation in the course.

It is important to note that the catalog's designation of a course as "Writing Intensive" indicates only Rowan-Cabarrus Community College's internal curriculum designation of that course as writing intensive. Students intending to transfer credit to other colleges and universities should consult with those institutions to determine if the course in question will be accepted as writing intensive.

Area Of Study	Course Title	Semester(s) Course Scheduled to be Offered	Credit Hours
		Class	
DRAFTING & DESIGN	DFT 111 Technical Drafting I	F Day	1 3 2
		F Evening	
This course introduces basic drafting skills, equipment, and applications. Topics include sketching, measurements, lettering, dimensioning, geometric construction, orthographic projections and pictorial drawings, sections, and auxiliary views. Upon completion, students should be able to understand and apply basic drawing principles and practices.			
Prerequisites: None			
Corequisites: DFT 111A (Local)			
Course Prefix and Number	Prerequisite(s)	Lab/Clinical/Work Exp.	
	Corequisite(s)		
		Text Body	
<i>Note: Local Prerequisites and Corequisites are labeled.</i>			

ACADEMIC-RELATED

ACA 090 Study Skills	F,S,SU Day	3 0 3
	F,S SU Evening	

This course is intended for those who placed into credit-level course work but who are not maintaining satisfactory academic progress toward meeting program goals. Topics include study skills, note taking, learning styles and strategies, test taking, goal setting, and self-assessment skills. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals. *This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: None
Corequisites: None

ACA 115 Success & Study Skills	F,S,SU Day	0 2 1
	F,S SU Evening	

This course provides an orientation to the campus resources and academic skills necessary to achieve educational objectives. Emphasis is placed on an exploration of facilities and services, study skills, library skills, self-assessment, wellness, goal-setting, and critical thinking. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals.

Prerequisites: None
Corequisites: None

ACCOUNTING

ACC 120 Principles of Financial Accounting F,S Day 3 2 4 F,S Evening

This course introduces business decision-making using accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

Prerequisites: MAT 080 or appropriate placement test score; CTS 080 or acceptable score on the TPE or computer placement test (Local)

Corequisites: CIS 110 (Local)

Distance Education: Internet, Hybrid

ACC 121 Principles of Managerial Acct. F,S Day 3 2 4 F,S Evening

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 pre-major and/or elective course requirement.*

Prerequisites: ACC 120

Corequisites: None

Distance Education: Internet, Hybrid

ACC 129 Individual Income Taxes S Day 2 2 3 TBA Evening

This course introduces the relevant laws governing individual income taxation. Topics include tax law, electronic research and methodologies, and the use of technology for preparation of individual tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various individual tax forms.

Prerequisites: None

Corequisites: None

Distance Education: Internet, Hybrid

ACC 132 NC Business Taxes TBA Day 2 0 2 TBA Evening

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.

Prerequisites: None

Corequisites: None

Distance Education: Internet, Hybrid

ACC 140 Payroll Accounting

S Day 1 2 2
TBA Evening

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology.

Prerequisites: ACC 115 or ACC 120

Corequisites: None

Distance Education: Internet, Hybrid

ACC 150 Accounting Software Applications

S Day 1 2 2
TBA Evening

This course introduces computer 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 software package to solve accounting problems.

Prerequisites: ACC 115 or ACC 120

Corequisites: None

Distance Education: Internet, Hybrid

ACC 220 Intermediate Accounting I

S Day 3 2 4
TBA Evening

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.

Prerequisites: ACC 120

Corequisites: None

Distance Education: Hybrid

ACC 221 Intermediate Accounting II

F Day 3 2 4
TBA Evening

This course is a continuation of ACC 220. Emphasis is placed on special problems which may include leases, bonds, investments, ratio analyses, present value applications, accounting changes, and corrections. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

Prerequisites: ACC 220

Corequisites: None

Distance Education: Hybrid

ACC 225 Cost Accounting

F Day 3 0 3
TBA Evening

This course introduces the nature and purposes of cost accounting as an information system for planning and control. Topics include direct materials, direct labor, factory overhead, process, job order, and standard cost systems. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

Prerequisites: ACC 121

Corequisites: None

Distance Education: Hybrid

ACC 227 Practices in Accounting

S Day

TBA Evening

3 0 3

This course provides an advanced in-depth study of selected topics in accounting using case studies and individual and group problem solving. Topics include cash flow, financial statement analysis, individual and group problem solving, practical approaches to dealing with clients, ethics, and critical thinking. Upon completion, students should be able to demonstrate competent analytical skills and effective communication of their analysis in written and/or oral presentations.

Prerequisites: ACC 220

Corequisites: None

ACC 240 Government & Not-for-Profit Acct

F Day

TBA Evening

3 0 3

This course introduces principles and procedures applicable to governmental and not-for-profit organizations. Emphasis is placed on various budgetary accounting procedures and fund accounting. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

Prerequisites: ACC 121

Corequisites: None

ACC 250 Advanced Accounting

S Day

TBA Evening

3 0 3

This course is designed to analyze special accounting issues, which may include business combinations, partnerships, international accounting, estates, and trusts. Emphasis is placed on analyzing transactions and preparing working papers and financial statements. Upon completion, students should be able to solve a wide variety of problems by advanced application of accounting principles and procedures.

Prerequisites: ACC 220

Corequisites: None

Distance Education: Hybrid

ACC 269 Auditing & Assurance Services

S Day

TBA Evening

3 0 3

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.

Prerequisites: ACC 220

Corequisites: None

Distance Education: Hybrid

AGRICULTURE

AGR 160 Plant Science

S Day
TBA Evening

2 2 3

This course introduces the basic principles of botany that pertain to agricultural production. Emphasis is placed on the anatomy and physiology of flowering plants. Upon completion, students should be able to identify and explain plant systems.

Prerequisites: None

Corequisites: None

AGR 214 Agricultural Marketing

TBA Day
TBA Evening

3 0 3

This course covers basic marketing principles for agricultural products. Topics include buying, selling, processing, standardizing, grading, storing, and marketing of agricultural commodities. Upon completion, students should be able to construct a marketing plan for an agricultural product.

Prerequisites: None

Corequisites: None

AIR CONDITIONING, HEATING, AND REFRIGERATION

AHR 110 Introduction to Refrigeration

F Day
On Demand Evening

2 6 5

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade.

Prerequisites: None

Corequisites: None

AHR 111 HVACR Electricity

F Day
On Demand Evening

2 2 3

This course introduces electricity as it applies to HVACR equipment. Emphasis is placed on power sources, interaction of electrical components, wiring of simple circuits, and the use of electrical test equipment. Upon completion, students should be able to demonstrate good wiring practices and the ability to read simple wiring diagrams.

Prerequisites: None

Corequisites: None

AHR 112 Heating Technology

F Day
On Demand Evening

2 4 4

This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems, and describe the major components of a heating system.

Prerequisites: None

Corequisites: None

AHR 113 Comfort Cooling

S Day 2 4 4
On Demand Evening

This course covers the installation procedures, system operations, and maintenance of residential and light commercial comfort cooling systems. Topics include terminology, component operation, and testing and repair of equipment used to control and produce assured comfort levels. Upon completion, students should be able to use psychometrics, manufacturer specifications, and test instruments to determine proper system operation.

Prerequisites: AHR 110 (Local)

Corequisites: None

AHR 114 Heat Pump Technology

SU Day 2 4 4
On Demand Evening

This course covers the principles of air source and water source heat pumps. Emphasis is placed on safety, modes of operation, defrost systems, refrigerant charging, and system performance. Upon completion, students should be able to understand and analyze system performance and perform routine service procedures.

Prerequisites: AHR 110 or AHR 113

Corequisites: None

AHR 115 Refrigeration Systems

S Day 1 3 2
On Demand Evening

This course introduces refrigeration systems and applications. Topics include defrost methods, safety and operational control, refrigerant piping, refrigerant recovery and charging, and leak testing. Upon completion, students should be able to assist in installing and testing refrigeration systems and perform simple repairs.

Prerequisites: AHR 110

Corequisites: None

AHR 130 HVAC Controls

S Day 2 2 3
On Demand Evening

This course covers the types of controls found in residential and commercial comfort systems. Topics include electrical and electronic controls, control schematics and diagrams, test instruments, and analysis and troubleshooting of electrical systems. Upon completion, students should be able to diagnose and repair common residential and commercial comfort system controls.

Prerequisites: AHR 111 or ELC 111

Corequisites: None

AHR 151 HVAC Duct Systems I

F Day 1 3 2
On Demand Evening

This course introduces the techniques used to lay out and fabricate duct work commonly found in HVAC systems. Emphasis is placed on the skills required to fabricate duct work. Upon completion, students should be able to lay out and fabricate simple duct work.

Prerequisites: None

Corequisites: None

AHR 160 Refrigerant Certification

SU Day 1 0 1
On Demand Evening

This course covers the requirements for the EPA certification examinations. Topics include small appliances, high pressure systems, and low pressure systems. Upon completion, students should be able to demonstrate knowledge of refrigerants and be prepared for the EPA certification examinations.

Prerequisites: None

Corequisites: None

AHR 180 HVACR Customer Relations

SU Day **1 0 1**
On Demand Evening

This course introduces common business and customer relation practices that may be encountered in HVACR. Topics include business practices, appearance of self and vehicle, ways of handling customer complaints, invoices, telephone communications, and warranties. Upon completion, students should be able to present themselves to customers in a professional manner, understand how the business operates, complete invoices, and handle complaints.

Prerequisites: None

Corequisites: None

AHR 211 Residential System Design

SU Day **2 2 3**
On Demand Evening

This course introduces the principles and concepts of conventional residential heating and cooling system design. Topics include heating and cooling load estimating, basic psychometrics, equipment selection, duct system selection, and system design. Upon completion, students should be able to design a basic residential heating and cooling system.

Prerequisites: None

Corequisites: None

AHR 212 Advanced Comfort Systems

F Day **2 6 4**
On Demand Evening

This course covers water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pump systems including variable speed drives and controls. Emphasis is placed on the application, installation, and servicing of water-source systems and the mechanical and electronic control components of advanced comfort systems. Upon completion, students should be able to test, analyze, and troubleshoot water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pumps.

Prerequisites: AHR 114

Corequisites: None

AHR 215 Commercial HVAC Controls

S Day **1 3 2**
On Demand Evening

This course introduces HVAC control systems used in commercial applications. Topics include electric/electronic control systems, pneumatic control systems, DDC temperature sensors, humidity sensors, pressure sensors, wiring, controllers, actuators, and controlled devices. Upon completion, students should be able to verify or correct the performance of common control systems with regard to sequence of operation and safety.

Prerequisites: AHR 111 or ELC 111

Corequisites: None

AHR 220 Commercial Building Codes

SU Day **2 0 2**
On Demand Evening

This course covers the appropriate sections of the North Carolina State Building Code that govern the installation of commercial comfort, refrigeration, and mechanical systems. Emphasis is placed on using and understanding applications sections of the North Carolina State Building Code. Upon completion, students should be able to use the North Carolina State Building Code to locate information regarding the installation of commercial systems.

Prerequisites: None

Corequisites: None

AHR 225 Commercial System Design S Day **2 3 3**
On Demand Evening

This course covers the principles of designing heating and cooling systems for commercial buildings. Emphasis is placed on commercial heat loss/gain calculations, applied psychometrics, air-flow calculations, air distribution system design, and equipment selection. Upon completion, students should be able to calculate heat loss/gain, design and size air and water distribution systems, and select equipment.

Prerequisites: None

Corequisites: None

AHR 235 Refrigeration Design SU Day **2 2 3**
On Demand Evening

This course covers the principles of commercial refrigeration system operation and design. Topics include walk-in coolers, walk-in freezers, system components, load calculations, equipment selection, defrost systems, refrigerant line sizing, and electric controls. Upon completion, students should be able to design, adjust, and perform routine service procedures on a commercial refrigeration system.

Prerequisites: AHR 110

Corequisites: None

AHR 250 HVAC System Diagnostics SU Day **0 4 2**
On Demand Evening

This course is a comprehensive study of air conditioning, heating, and refrigeration system diagnostics and corrective measures. Topics include advanced system analysis, measurement of operating efficiency, and inspection and correction of all major system components. Upon completion, students should be able to restore a residential or commercial AHR system so that it operates at or near manufacturers' specifications.

Prerequisites: None

Corequisites: AHR 212

AHR 255 Indoor Air Quality S Day **1 2 2**
On Demand Evening

This course introduces the techniques of assessing and maintaining the quality of the indoor environment in residential and commercial structures. Topics include handling and investigating complaints, filter selection, humidity control, testing for sources of carbon monoxide, impact of mechanical ventilation, and building and duct pressures. Upon completion, students should be able to assist in investigating and solving common indoor air quality problems.

Prerequisites: AHR 211 (Local)

Corequisites: None

ANTHROPOLOGY

ANT 210 General Anthropology TBA Day **3 0 3**
TBA Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

ART

ART 111 Art Appreciation

F,S,SU Day **3 0 3**
On Demand Evening

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 core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: None

ART 114 Art History Survey I

On Demand Day **3 0 3**
On Demand Evening

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 core requirement in humanities/fine arts.*

Prerequisites: None

Corequisites: None

ART 115 Art History Survey II

On Demand Day **3 0 3**
On Demand Evening

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 core requirement in humanities/fine arts.*

Prerequisites: None

Corequisites: None

ART 116 Survey of American Art

On Demand Day **3 0 3**
On Demand Evening

This course covers the development of American art forms from colonial times to the present. Emphasis is placed on architecture, painting, sculpture, graphics, and the decorative arts. Upon completion, students should be able to demonstrate understanding of the history of the American creative experience. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: None

ART 121 Design I

On Demand Day **0 6 3**
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

ART 122 Design II

On Demand Day **0 6 3**
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: ART 121

Corequisites: None

ART 131 Drawing I

On Demand Day **0 6 3**
On Demand Evening

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.*

Prerequisites: None

Corequisites: None

ART 132 Drawing II

On Demand Day **0 6 3**
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: ART 131

Corequisites: None

ART 135 Figure Drawing I

On Demand Day **0 6 3**
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: ART 131

Corequisites: None

ART 214 Portfolio and Résumé

On Demand Day **0 2 1**
 On Demand Evening

This course covers résumé 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 résumé 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 résumé. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

ART 240 Painting I

No Day **0 6 3**
 TBA Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

ART 241 Painting II

On Demand Day **0 6 3**
 On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: ART 240

Corequisites: None

ART 244 Watercolor

On Demand Day **0 6 3**
 On Demand Evening

This course introduces basic methods and techniques used in watercolor. Emphasis is placed on application, materials, content, and individual expression. Upon completion, students should be able to demonstrate a variety of traditional and nontraditional concepts used in watercolor media. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

ART 261 Photography I

On Demand Day **0 6 3**
 On Demand Evening

This course introduces photographic equipment, theory, and processes. Emphasis is placed on camera operation, composition, darkroom technique, and creative expression. Upon completion, students should be able to successfully expose, develop, and print a well-conceived composition. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

ART 264 Digital Photography IOn Demand Day **1 4 3**
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

ART 265 Digital Photography IIOn Demand Day **1 4 3**
On Demand Evening

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 pre-major and/or elective course requirement.

Prerequisites: ART 264

Corequisites: None

ART 288 StudioOn Demand Day **0 6 3**
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

ASTRONOMY**AST 111 Descriptive Astronomy**TBA Day **3 0 3**
TBA Evening

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 core requirement in natural sciences/mathematics.*

Prerequisites: None

Corequisites: None

Distance Education: Internet, Hybrid

AST 111A Descriptive Astronomy Lab

TBA Day **0 2 1**
TBA Evening

This 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 core requirement in natural sciences/mathematics.*

Prerequisites: None

Corequisites: AST 111

AST 151 General Astronomy I

F Day **3 0 3**
No Evening

This course introduces the science of modern astronomy with a concentration on the solar system. Emphasis is placed on the history and physics of astronomy and an introduction to the solar system, including the planets, comets, and meteors. Upon completion, students should be able to demonstrate a general understanding of the solar system. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 070 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Hybrid

AST 151A General Astronomy I Lab

No Day **0 2 1**
F Evening

The course is a laboratory to accompany AST 151. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 151 and which provide practical experience. Upon completion, students should be able to demonstrate a general understanding of the solar system. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: AST 151

Distance Education: Internet

AST 152 General Astronomy II

S Day **3 0 3**
No Evening

This course is a continuation of AST 151 with primary emphasis beyond the solar system. Topics include the sun, stars, galaxies, and the larger universe, including cosmology. Upon completion, students should be able to demonstrate a working knowledge of astronomy. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: AST 151

Corequisites: None

Distance Education: Internet, Hybrid

AST 152A General Astronomy II Lab No Day 0 2 1

S Evening

The course is a laboratory to accompany AST 152. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 152 and which provide practical experience. Upon completion, students should be able to demonstrate a working knowledge of astronomy. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: AST 151; and AST 151A (Local)

Corequisites: AST 152

Distance Education: Internet

AST 251 Observational Astronomy On Demand Day 1 3 2

On Demand Evening

This course covers the operation of the telescope and related observatory equipment. Emphasis is placed on the use of the telescope and related observatory equipment, including techniques of data collection, measurements, and data analysis. Upon completion, students should be able to set up a telescope and use the coordinate system to locate objects, collect data, and make measurements with the telescope. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: AST 111 or AST 152; and AST 152A (Local)

Corequisites: None

AUTOMOTIVE

AUT 110 Intro. to Automotive Technology F Day 2 2 3

TBA Evening

This course covers workplace safety, hazardous material and environmental regulations, use of hand tools, service information resources, basic concepts, systems, and terms of automotive technology. Topics include familiarization with vehicle systems along with identification and proper use of various automotive hand and power tools. Upon completion, students should be able to describe safety and environmental procedures, terms associated with automobiles, and identify and use basic tools and shop equipment.

Prerequisites: None

Corequisites: None

AUT 113 Automotive Servicing I SU Day 0 6 2

TBA Evening

This course is a lab used as an alternative to co-op placement. Emphasis is placed on shop operations, troubleshooting, testing, adjusting, repairing, and replacing components using appropriate test equipment and service information. Upon completion, students should be able to perform a variety of automotive repairs using proper service procedures and to operate appropriate equipment.

Prerequisites: AUT 181, AUT 183, AUT 141, AUT 151, AUT 163 (Local)

Corequisites: None

AUT 116 Engine Repair

F Day **2 3 3**
TBA Evening

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.

Prerequisites: None

Corequisites: AUT 116A (Local)

AUT 116A Engine Repair Lab

F Day **0 3 1**
TBA Evening

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.

Prerequisites: None

Corequisites: AUT 116

AUT 141 Suspension & Steering Systems

S Day **2 3 3**
TBA Evening

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.

Prerequisites: None

Corequisites: AUT 141A (Local)

AUT 141A Suspension & Steering Lab

S Day **0 3 1**
TBA Evening

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

Prerequisites: None

Corequisites: AUT 141

AUT 151 Brake Systems

S Day **2 3 3**
TBA Evening

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.

Prerequisites: None

Corequisites: AUT 151A (Local)

AUT 151A Brakes Systems Lab

S Day

0 3 1

TBA Evening

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.

Prerequisites: None

Corequisites: AUT 151

AUT 161 Basic Automotive Electricity

F Day

4 3 5

TBA Evening

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.

Prerequisites: None

Corequisites: None

AUT 163 Advanced Automotive Electricity

F Day

2 3 3

TBA Evening

This course covers electronic theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of electronics, lighting, gauges, horn, wiper, accessories, and body modules. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, and troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns.

Prerequisites: AUT 161

Corequisites: AUT 163A (Local)

AUT 163A Advanced Auto. Electricity Lab

F Day

0 3 1

TBA Evening

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, troubleshooting and emerging electrical/electronic systems technologies. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns.

Prerequisites: None

Corequisites: AUT 163

AUT 171 Automotive Climate Control

SU Day

2 4 4

TBA Evening

This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis/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 describe the operation, diagnose, and safely service climate control systems using appropriate tools, equipment, and service information.

Prerequisites: AUT 161 (Local)

Corequisites: None

AUT 181 Engine Performance I

S Day **2 3 3**
TBA Evening

This course covers the introduction, theory of operation, and basic diagnostic procedures required to restore engine performance to vehicles equipped with complex engine control systems. Topics include an overview of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information.

Prerequisites: AUT 161 (Local)

Corequisites: AUT 181A (Local)

AUT 181A Engine Performance I Lab

S Day **0 3 1**
TBA Evening

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include overviews of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices and emerging engine performance technologies. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information.

Prerequisites: None

Corequisites: AUT 181

AUT 183 Engine Performance II

SU Day **2 6 4**
TBA Evening

This course covers study of the electronic engine control systems, the diagnostic process used to locate engine performance concerns, and procedures used to restore normal operation. Topics will include currently used fuels and fuel systems, exhaust gas analysis, emission control components and systems, OBD II (on-board diagnostics) and inter-related electrical/electronic systems. Upon completion, students should be able to diagnose and repair complex engine performance concerns using appropriate test equipment and service information.

Prerequisites: AUT 181

Corequisites: None

AUT 186 PC Skills for Auto. Techs

SU Day **2 2 3**
TBA Evening

This course introduces students to personal computer literacy and Internet literacy with an emphasis on the automotive 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 automotive technology and perform word processing.

Prerequisites: None

Corequisites: None

AUT 221 Auto. Transmission/Transaxles

S Day **2 3 3**
TBA Evening

This course covers operation, diagnosis, service, and repair of automatic transmissions/transaxles. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair automatic drive trains.

Prerequisites: AUT 161 (Local)

Corequisites: AUT 221A (Local)

AUT 221A Auto. Transmission/Transaxle Lab S Day 0 3 1
TBA Evening

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.

Prerequisites: None

Corequisites: AUT 221

AUT 231 Manual Trans/Axles/Drive Trains F Day 2 3 3
TBA Evening

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.

Prerequisites: AUT 161 (Local)

Corequisites: AUT 231A (Local)

AUT 231A Manual Transmission/Axle/Drive Trains Lab F Day 0 3 1
TBA Evening

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.

Prerequisites: None

Corequisites: AUT 231

BIOLOGY

BIO 106 Intro. to Anatomy/Physiology/Microbiology SU Day 2 2 3
No Evening

This course covers the fundamental and principle concepts of human anatomy and physiology and microbiology. Topics include an introduction to the structure and function of cells, tissues, and human organ systems, and an overview of microbiology, epidemiology, and control of microorganisms. Upon completion, students should be able to identify structures and functions of the human body and describe microorganisms and their significance in health and disease. *This is a diploma-level course.*

Prerequisites: None

Corequisites: None

BIO 110 Principles of Biology TBA Day 3 3 4
No Evening

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, taxonomy, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

Prerequisites: None

Corequisites: None

BIO 111 General Biology IF,S Day
F Evening**3 3 4**

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, cell structure and function, metabolism and energy transformation, genetics, evolution, classification, 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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Hybrid

BIO 112 General Biology IIF,S Day
S Evening**3 3 4**

This course is a continuation of BIO 111. Emphasis is placed on organisms, 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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: BIO 111

Corequisites: None

Distance Education: Hybrid

BIO 140 Environmental BiologyS Day
No Evening**3 0 3**

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 contemporary environmental issues. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

Prerequisites: None

Corequisites: None

BIO 140A Environmental Biology LabS Day
No Evening**0 3 1**

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 contemporary environmental issues. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

Prerequisites: None

Corequisites: BIO 140

BIO 163 Basic Anatomy & PhysiologyF, S Day
No Evening**4 2 5**

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 pre-major and/or elective course requirement.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

BIO 168 Anatomy and Physiology IF,S Day
F Evening**3 3 4**

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.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

BIO 169 Anatomy and Physiology IIS Day
S Evening**3 3 4**

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: BIO 168 with a grade of "C" or better

Corequisites: None

BIO 250 GeneticsTBA Day
TBA Evening**3 3 4**

This course covers principles of prokaryotic and eukaryotic cell genetics. Emphasis is placed on the molecular basis of heredity, chromosome structure, patterns of Mendelian and non-Mendelian inheritance, evolution, and biotechnological applications. Upon completion, students should be able to recognize and describe genetic phenomena and demonstrate knowledge of important genetic principles. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: BIO 112

Corequisites: None

BIO 275 Microbiology

F,S,SU Day	3	3	4
F,S Evening			

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: BIO 110 or BIO 112 or BIO 163 or BIO 165 or BIO 168

Corequisites: None

BIO 280 Biotechnology

S Day	2	3	3
TBA Evening			

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.*

Prerequisites: BIO 111 or CHM 151

Corequisites: None

BIOPROCESS MANUFACTURING TECHNOLOGY**BPM 110 Bioprocess Practices**

TBA Day	3	4	5
TBA Evening			

This course provides a study of plant operations including various plant utility systems and detailed study of the varied plant environments in a bioprocessing facility. Emphasis is placed on quality mindset and principles of validation through applications of monitoring procedures. Upon completion, students should be able to demonstrate the rigors of industry regulation and its necessity.

Prerequisites: None

Corequisites: None

BLUEPRINT READING**BPR 111 Blueprint Reading**

F Day	1	2	2
F Evening			

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.

Prerequisites: None

Corequisites: None

BPR 121 Blueprint Reading: Mechanical

S Day	1	2	2
S Evening			

This course covers the interpretation of intermediate blueprints. Topics include tolerancing, auxiliary views, sectional views, and assembly drawings. Upon completion, students should be able to read and interpret a mechanical working drawing.

Prerequisites: BPR 111 or MAC 131

Corequisites: None

BPR 130 Blueprint Reading/Construction S Day On Demand **1 2 2**
S Evening On Demand

This course covers the interpretation of blueprints and specifications that are associated with the construction trades. Emphasis is placed on interpretation of details for foundations, floor plans, elevations, and schedules. Upon completion, students should be able to read and interpret a set of construction blueprints.

Prerequisites: None

Corequisites: None

BIOTECHNOLOGY

BTC 150 Bioethics F Day **3 0 3**
TBA Evening

This course introduces the current ethics issues surrounding the biotechnology industries. Topics will include risk assessment, the relationships between science, technology, and society, and the effects of new biotechnology products upon the natural world. Upon completion, students should be able to demonstrate knowledge and critical thinking skills in decision-making related to bioethical issues.

Prerequisites: None

Corequisites: RED 090

BTC 181 Basic Lab Techniques F,S Day **3 3 4**
TBA Evening

This course introduces the basic skills and knowledge necessary in a biological or chemical laboratory. Emphasis is placed on good manufacturing practices, safety, solution preparation, and equipment operation and maintenance following standard operating procedures. Upon completion, students should be able to prepare and perform basic laboratory procedures using labware, solutions, and equipment according to prescribed protocols.

Prerequisites: MAT 070 or appropriate placement test score (Local)

Corequisites: None

BTC 270 Recombinant DNA Techniques S Day **3 3 4**
TBA Evening

This course covers basic methods in biotechnology for the manipulation of nucleic acids. Emphasis is placed on topics concerning techniques used in recombinant DNA technology, including PCR, restriction digests, mapping, cloning, and forensics. Upon completion, students should have an understanding of the theory, practice, and application of recombinant DNA techniques.

Prerequisites: BTC 250 and BTC 181

Corequisites: None

BTC 281 Bioprocess TechniquesTBA Day **2 6 4**
TBA Evening

This course covers processes used in the production of biomolecules. Emphasis is placed on the production, characterization, and purification of biological products using fermentation, centrifugation, filtration, electrophoresis, and other techniques used in industry. Upon completion, students should be able to produce biological products using the various methods of bioprocessing.

Prerequisites: BTC 181

Corequisites: None

BTC 282 Biotech Fermentation ITBA Day **2 6 4**
TBA Evening

This course provides an introduction to fermentor classification and configuration for small-scale laboratory processed utilizing prokaryotic organisms to demonstrate techniques used in fermentation procedures. Topics include batch process records, fermentor design, fermentation theory, and medium formulation, as well as techniques used for cell harvesting, cell disruption and fractionation methods. Upon completion, students should be able to set up a fermentor; grow prokaryotic cells, and isolate and collect various fractions derived from fermentation.

Prerequisites: BTC 181

Corequisites: None

BTC 283 Biotech Fermentation IITBA Day **2 6 4**
TBA Evening

This course introduces techniques for recovery of fermentation products to include removal of insolubles, product isolation, high resolutions techniques and product polishing using eukaryotic cells. Topics include filter design, separation processes such as flocculation, coagulation, distillation, liquid-liquid extraction, different types of chromatography and emerging technologies for product recovery. Upon completion, students should be able to perform eukaryotic cell cultivation and various separation techniques used in small-scale fermentation with an understanding of scale-up procedures.

Prerequisites: BTC 282

Corequisites: None

BTC 285 Cell CultureF Day **2 3 3**
TBA Evening

This course introduces the theory and practices required to successfully initiate and maintain plant and animal cell cultures. Topics include aseptic techniques, the growth environment, routine maintenance of cell cultures, specialized culture techniques, and various applications. Upon completion, students should be able to demonstrate the knowledge and skills required to grow, maintain, and manipulate cells in culture.

Prerequisites: BIO 175 or BIO 275

Corequisites: None

BTC 286 Immunological Techniques S Day **3 3 4**
TBA Evening

This course covers the principles and practices of modern immunology, including the interactions between the various cellular and chemical components of the immune response. Topics include antigens, humoral immunity, cellular immunity, complement, immunological assays, and hybridoma use and production. Upon completion, students should be able to discuss the immune response, perform immunological assays, and make monoclonal antibody-producing hybridomas.

Prerequisites: BTC 285

Corequisites: None

BTC 288 Biotech Lab Experience SU Day **0 6 2**
TBA Evening

This course provides an opportunity to pursue an individual laboratory project in biotechnology. Emphasis is placed on developing, performing, and maintaining records of a project in a specific area of interest. Upon completion, students should be able to complete the project with accurate records and demonstrate an understanding of the process.

Prerequisites: BIO 250 or BTC 270 and BTC 281, BTC 285 or BTC 286

Corequisites: None

BUSINESS

BUS 110 Introduction to Business F,S Day **3 0 3**
TBA Evening

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 for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

Distance Education: Internet, Telecourse

BUS 115 Business Law I F,S Day **3 0 3**
TBA Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

Distance Education: Internet, Telecourse

BUS 121 Business Mathematics

TBA Day **2 2 3**
TBA Evening

This course covers fundamental mathematical operations and their application to business problems. Topics include payroll, pricing, interest and discount, commission, taxes, and other pertinent uses of mathematics in the field of business. Upon completion, students should be able to apply mathematical concepts to business.

Prerequisites: MAT 060 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Telecourse

BUS 125 Personal Finance

F Day **3 0 3**
S Evening

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.

Prerequisites: None

Corequisites: None

BUS 137 Principles of Management

F,S Day **3 0 3**
TBA Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

Distance Education: Internet, Telecourse

BUS 153 Human Resource Management

S Day **3 0 3**
TBA Evening

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.

Prerequisites: None

Corequisites: None

Distance Education: Internet

BUS 217 Employment Law and Regulations

On Demand Day **3 0 3**
On Demand Evening

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.

Prerequisites: None

Corequisites: None

Distance Education: Internet

BUS 225 Business FinanceS Day 2 2 3
S Evening

This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management.

Prerequisites: ACC 120

Corequisites: None

Distance Education: Internet

BUS 230 Small Business ManagementTBA Day 3 0 3
TBA Evening

This course introduces the challenges of entrepreneurship, including the startup and operation of a small business. Topics include market research techniques, feasibility studies, site analysis, financing alternatives, and managerial decision making. Upon completion, students should be able to develop a small business plan.

Prerequisites: None

Corequisites: None

Distance Education: Internet, Telecourse

BUS 240 Business EthicsTBA Day 3 0 3
TBA Evening

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.

Prerequisites: None

Corequisites: None

Distance Education: Internet

BUS 253 Leadership and Management SkillsS Day 3 0 3
S Evening

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.

Prerequisites: None

Corequisites: None

Distance Education: Hybrid

BUS 260 Business CommunicationF,S Day 3 0 3
TBA Evening

This course is designed to develop skills in writing business communications. Emphasis is placed on business reports, correspondence, and professional presentations. Upon completion, students should be able to communicate effectively in the work place.

Prerequisites: ENG 111

Corequisites: None

Distance Education: Internet, Hybrid, Telecourse

BUS 280 REAL Small BusinessF,S Day
TBA Evening**4 0 4**

This course introduces hands-on techniques and procedures for planning and opening a small business, including the personal qualities needed for entrepreneurship. Emphasis is placed on market research, finance, time management, and day-to-day activities of owning/operating a small business. Upon completion, students should be able to write and implement a viable business plan and seek funding.

Prerequisites: None

Corequisites: None

CHEMISTRY**CHM 090 Chemistry Concepts**F,S,SU Day
F,S Evening**4 0 4**

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, gasses, and basic organic chemistry. Upon completion, students should be able to understand and apply basic chemical concepts and demonstrate basic laboratory skills necessary for success in college-level science courses. *This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: ENG 111 and MAT 070 or RED 090 and MAT 070 or appropriate placement test score (Local)

Corequisites: None

CHM 131 Introduction to ChemistryTBA Day
No Evening**3 0 3**

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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 111 and MAT 070 or RED 090 and MAT 070 or appropriate placement test score (Local)

Corequisites: None

CHM 131A Introduction to Chemistry LabTBA Day
No Evening**0 3 1**

This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experience 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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: CHM 131

CHM 132 Organic and BiochemistryOn Demand Day **3 3 4**
On Demand Evening

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 core requirement in natural sciences/mathematics.*

Prerequisites: CHM 131 and CHM 131A or CHM 151

Corequisites: None

CHM 151 General Chemistry IF,S Day **3 3 4**
F Evening

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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: High school chemistry or equivalent within the last five years and MAT 080 and RED 090 or acceptable placement test scores (Local)

Corequisites: MAT 161 (Local)

Distance Education: Hybrid

CHM 152 General Chemistry IIF, S Day **3 3 4**
S Evening

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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: CHM 151 with a grade of "C" or better

Corequisites: None

CHM 263 Analytical ChemistryTBA Day **3 4 5**
TBA Evening

This course covers the knowledge and laboratory skills needed to perform chemical analysis. Emphasis is placed on developing laboratory techniques used in the separation, identification, and quantification of selected substances. Upon completion, students should be able to perform laboratory techniques employed in substance identification and volumetric analysis and interpret the results. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.

Prerequisites: CHM 132

Corequisites: None

INFORMATION SYSTEMS

CIS 110 Introduction to Computers F,S,SU Day **2 2 3**
F,S,SU Evening

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 core requirement in natural sciences/mathematics (Quantitative Option). This course may satisfy a general education requirement for Catawba College.*

Prerequisites: CTS 080, or acceptable score on the TPE or computer placement test, or successful completion of any Internet or Hybrid course (Local); and RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Hybrid

CIS 115 Intro. to Programming & Logic F,S Day **2 3 3**
On Demand Evening

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 core requirement in natural sciences/mathematics (Quantitative Option).*

Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, or MAT 175 or acceptable placement test score

Corequisites: None

CIVIL ENGINEERING TECHNOLOGY

CIV 110 Statics/Strength of Materials On Demand Day **2 6 4**
On Demand Evening

This course includes vector analysis, equilibrium of force systems, friction, sectional properties, stress/strain, and deformation. Topics include resultants and components of forces, moments and couples, free-body diagrams, shear and moment diagrams, trusses, frames, beams, columns, connections, and combined stresses. Upon completion, students should be able to analyze simple structures.

Prerequisites: MAT 121

Corequisites: None

CIV 210 Engineering Materials On Demand Day **1 3 2**
On Demand Evening

This course covers the behavior and properties of Portland cement and asphaltic concretes and laboratory and field-testing. Topics include cementing agents and aggregates; water and admixtures; proportioning, production, placing, consolidation, and curing; and inspection methods. Upon completion, students should be able to proportion concrete mixes to attain predetermined strengths and other properties and perform standard control tests.

Prerequisites: None

Corequisites: None

CIV 230 Construction EstimatingS On Demand Day **2 3 3**
S On Demand Evening

This course covers quantity take-offs of labor, materials, and equipment and calculation of direct and overhead costs for a construction project. Topics include the interpretation of working drawings and specifications, types of contracts and estimates, building codes, bidding techniques and procedures, and estimating software. Upon completion, students should be able to prepare a detailed cost estimate and bid documents for a construction project.

Prerequisites: ARC 111 or CIS 110 or CIS 111 or EGR 115

Corequisites: None

CIV 240 Project ManagementF On Demand Day **2 3 3**
F On Demand Evening

This course introduces construction planning and scheduling techniques and project management software. Topics include construction safety, operation analysis, construction scheduling, construction control systems, claims and dispute resolutions, project records, and documentation. Upon completion, students should be able to demonstrate an understanding of the roles of construction project participants, maintain construction records, and prepare construction schedules.

Prerequisites: EGR 115 or ARC 111

Corequisites: None

CRIMINAL JUSTICE**CJC 100 Basic Law Enforcement Training**F,S Day **9 30 19**
F Evening

This course covers the basic 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 areas required for the state comprehensive certification examination. *This is a certificate-level course.*

Prerequisites: None

Corequisites: None

CJC 111 Introduction to Criminal JusticeF,S Day **3 0 3**
F,S Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

CJC 112 CriminologyS Day **3 0 3**
S Evening

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.

Prerequisites: None

Corequisites: None

CJC 113 Juvenile JusticeS Day
S Evening **3 0 3**

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.

Prerequisites: None

Corequisites: None

CJC 121 Law Enforcement OperationsF Day
F Evening **3 0 3**

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

CJC 131 Criminal LawF Day
F Evening **3 0 3**

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.

Prerequisites: None

Corequisites: None

CJC 132 Court Procedure & EvidenceS Day
S Evening **3 0 3**

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.

Prerequisites: None

Corequisites: None

CJC 141 CorrectionsF Day
F Evening **3 0 3**

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

CJC 160 Terrorism: Underlying Issues On Demand Day **3 0 3**
On Demand Evening

This course identifies the fundamental reasons why America is a target for terrorists, covering various domestic/international terrorist groups and ideologies from a historical aspect. Emphasis is placed upon recognition of terrorist crime scenes; weapons of mass destruction; chemical, biological, and nuclear terrorism; and planning consideration involving threat assessments. Upon completion, the student should be able to identify and discuss the methods used in terrorists' activities and complete a threat assessment for terrorists' incidents.

Prerequisites: None

Corequisites: None

CJC 212 Ethics & Community Relations F Day **3 0 3**
F Evening

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.

Prerequisites: None

Corequisites: ENG 112 (Local)

CJC 214 Victimology S Day **3 0 3**
S Evening

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.

Prerequisites: None

Corequisites: None

CJC 221 Investigative Principles S Day **3 2 4**
S Evening

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.

Prerequisites: None

Corequisites: None

CJC 222 Criminalistics On Demand Day **3 0 3**
On Demand Evening

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.

Prerequisites: None

Corequisites: None

CJC 223 Organized CrimeOn Demand Day **3 0 3**
On Demand Evening

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.

Prerequisites: None

Corequisites: None

CJC 225 Crisis InterventionOn Demand Day **3 0 3**
On Demand Evening

This course introduces critical incident intervention and management techniques as they apply to operational criminal justice practitioners. Emphasis is placed on the victim/offender situation as well as job-related high stress, dangerous, or problem-solving citizen contacts. Upon completion, students should be able to provide insightful analysis of emotional, violent, drug-induced, and other critical and/or stressful incidents that require field analysis and/or resolution.

Prerequisites: None

Corequisites: None

CJC 231 Constitutional LawF Day **3 0 3**
F Evening

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.

Prerequisites: None

Corequisites: None

CJC 233 Correctional LawOn Demand Day **3 0 3**
On Demand Evening

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.

Prerequisites: None

Corequisites: None

CJC 241 Community-Based CorrectionsOn Demand Day **3 0 3**
On Demand Evening

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.

Prerequisites: None

Corequisites: None

CONSTRUCTION MANAGEMENT TECHNOLOGY

CMT 210 Prof. Construction Supervision F On Demand Day **3 0 3** F On Demand Evening

This course introduces the student to the fundamentals of effective supervision emphasizing professionalism through knowledge and applied skills. Topics include safety, planning and scheduling, contract, problem solving, communications, conflict resolution, recruitment, employment laws and regulations, leadership, motivation, teamwork, discipline, setting objectives, and training. Upon completion, the student should be able to demonstrate the basic skills necessary to be successful as a supervisor in the construction industry.

Prerequisites: None

Corequisites: None

CMT 212 Total Safety Performance F On Demand Day **3 0 3** F On Demand Evening

This course covers the importance of managing safety and productivity equally by encouraging people to take individual responsibility for safety and health in the workplace. Topics include safety management, controlling construction hazards, communicating and enforcing policies, OSHA compliance, personal responsibility and accountability, safety planning, training, and personal protective equipment. Upon completion, students should be able to supervise safety at a construction job site and qualify for the OSHA Training Certification.

Prerequisites: None

Corequisites: CMT 210

CMT 214 Planning and Scheduling F On Demand Day **3 0 3** F On Demand Evening

This course covers the need for the process of planning construction projects, as well as the mechanics and vocabulary of project scheduling. Topics include project preplanning, scheduling format, planning for production, short interval planning, schedule updating and revising, and computer-based planning and scheduling. Upon completion, the student should be able to understand the need for planning and scheduling, the language and logic of scheduling, and use of planning skills.

Prerequisites: CMT 210 and BPR 130

Corequisites: None

CMT 216 Costs and Productivity F On Demand Day **3 0 3** F On Demand Evening

This course covers the relationships between time, work completed, work hours spent, schedule duration, equipment hours, and materials used. Topics include production rates, productivity unit rates, work method improvements, and overall total project cost control. Upon completion, the student should be able to demonstrate an understanding of how costs may be controlled and productivity improved on a construction project.

Prerequisites: CMT 210

Corequisites: None

CMT 218 Human Relations Issues

S On Demand Day **3 0 3**
 S On Demand Evening

This course provides instruction on human relations issues as they relate to construction project supervision. Topics include relationships, human behavior, project staffing issues, teamwork, effective communication networks, laws and regulations, and identifying and responding to conflict, crisis, and discipline. Upon completion, the student will demonstrate an understanding of the importance of human relations in the success of a construction project.

Prerequisites: CMT 210

Corequisites: None

COOPERATIVE EDUCATION**COE 110 World of Work**

F,S, SU Day **1 0 1**
 No Evening

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.

Prerequisites: None

Corequisites: None

COE 111 Co-op Work Experience I

F,S,SU Day **0 10 1**
 F,S,SU Evening

This course provides work 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.

Prerequisites: Completion of 12 credit hours with at least a 2.25 cumulative GPA

Corequisites: None

COE 111PS Co-op Work Exp. I - Early Childhood (Preschool)

F Day **0 10 1**
 No Evening

This course provides work 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. This supervised practicum experience gives the student an opportunity to apply age-appropriate principles in preschool environments.

Prerequisites: Enrolled in D55220, A55220, A55220TR, or A5522B program;
 successful completion of 12 semester hours' credit of early
 childhood coursework and GPA of 2.5 required; permission from
 EC advisor required (Local)

Corequisites: EDU 126PS (Local)

COE 111SA Co-op Work Exp. I - Early Childhood (School-age) F Day 0 10 1
No Evening

This course provides work 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. This supervised practicum experience gives the student an opportunity to apply age-appropriate principles in school-age environments.

Prerequisites: Enrolled in D55220, A55220,, A55220TR, or A5522B program; successful completion of 12 semester hours' credit of early childhood coursework and GPA of 2.5 required; permission from EC advisor required (Local)

Corequisites: EDU 126SA (Local)

COE 112 Co-op Work Experience I F,S,SU Day 0 20 2
F,S,SU Evening

This course provides work 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.

Prerequisites: Completion of 12 credit hours with at least a 2.25 cumulative GPA

Corequisites: None

COE 113 Co-op Work Experience I F,S,SU Day 0 30 3
F,S,SU Evening

This course provides work 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.

Prerequisites: Completion of 12 credit hours with at least a 2.25 cumulative GPA

Corequisites: None

COE 114 Co-op Work Experience I F,S,SU Day 0 40 4
F,S,SU Evening

This course provides work 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.

Prerequisites: Completion of 12 credit hours with at least a 2.25 cumulative GPA

Corequisites: None

COE 121 Co-op Work Experience II F,S,SU Day 0 10 1
F,S,SU Evening

This course provides work 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.

Prerequisites: COE 111 or COE 112 or COE 113 or COE 114 (Local)

Corequisites: None

COE 121PS Co-op Work Exp. II-Early Childhood (Preschool) S Day 0 10 1
No Evening

This course provides work 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. This supervised practicum experience gives the student an opportunity to apply age-appropriate principles in preschool/special needs environments.

Prerequisites: GPA of at least 2.5; enrolled in D55220, A5522TR or A5522B program; and successful completion of 12 semester hours' credit of Early Childhood coursework; permission from EC advisor required (Local)

Corequisites: EDU 226PS (Local)

COE 121SA Co-op Work Exp. II-Early Childhood (School-Age) S Day 0 10 1
No Evening

This course provides work 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. This supervised practicum experience gives the student an opportunity to apply age-appropriate principles in school-age/special needs environments.

Prerequisites: GPA of at least 2.5; enrolled in D55220, A5522TR or A5522B program; and successful completion of 12 semester hours' credit of Early Childhood coursework; permission from EC advisor required (Local)

Corequisites: EDU 226SA for A55220 majors; EDU 285 and EDU 286 for A5522B majors

COE 122 Co-op Work Experience II F,S,SU Day 0 20 2
F,S,SU Evening

This course provides work 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.

Prerequisites: COE 111 or COE 112 or COE 113 or COE 114 (Local)

Corequisites: None

COE 123 Co-op Work Experience II F,S,SU Day 0 30 3
F,S,SU Evening

This course provides work 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.

Prerequisites: COE 111 or COE 112 or COE 113 or COE 114 (Local)

Corequisites: None

COE 131 Co-op Work Experience IIIF,S,SU Day 0 10 1
F,S,SU Evening

This course provides work 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.

Prerequisites: COE 121 or COE 122 or COE 123 (Local)

Corequisites: None

COE 132 Co-op Work Experience IIIF,S,SU Day 0 20 2
F,S,SU Evening

This course provides work 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.

Prerequisites: COE 121 or COE 122 or COE 123 (Local)

Corequisites: None

COE 211 Co-op Work Experience IVF,S,SU Day 0 10 1
F,S,SU Evening

This course provides work 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.

Prerequisites: COE 131 or COE 132 (Local)

Corequisites: None

COE 221 Co-op Work Experience VF,S,SU Day 0 10 1
F,S,SU Evening

This course provides work 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.

Prerequisites: COE 211 (Local)

Corequisites: None

COE 231 Co-op Work Experience VIF,S,SU Day 0 10 1
F,S,SU Evening

This course provides work 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.

Prerequisites: COE 221 (Local)

Corequisites: None

COMMUNICATION

COM 110 Introduction to Communication Telecourse Only 3 0 3

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 core requirement in humanities/fine arts (substitute). This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Hybrid, Telecourse

COM 120 Intro. to Interpersonal Comm. On Demand Day 3 0 3

On Demand Evening

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 core requirement in humanities/fine arts (substitute).*

Prerequisites: ENG 090 or appropriate placement test score (Local)

Corequisites: None

COM 130 Nonverbal Communication On Demand Day 3 0 3

On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: COM 120

Corequisites: None

COM 140 Intro. to Intercultural Comm. On Demand Day 3 0 3

On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: ENG 090 or appropriate placement test score (Local)

Corequisites: None

COM 150 Intro. to Mass Communication On Demand Day **3 0 3**
On Demand Evening

This course introduces print and electronic media and the new information technologies in terms of communication theory and as economic, political, and social institutions. Emphasis is on the nature, history, functions, and responsibilities of mass communication industries in a global environment and their role and impact in American society. Upon completion, students should have an awareness of the pervasive nature of the mass media and how the media operate in an advanced post-industrial society. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: ENG 111

Corequisites: ENG 112, ENG 113 or ENG 114

COM 160 Small Group Communication On Demand Day **3 0 3**
On Demand Evening

This course provides an overview of the theory, practice, and critical analysis of communication in the small group setting. Emphasis is placed on group development, conflict, and conformity; leadership skills and styles; group roles and ranks; and decision making, problem solving, and conflict resolution. Upon completion, students should be able to apply topics of gender, culture, and social-emotional functions within group settings. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

COM 231 Public Speaking F,S Day **3 0 3**
F,S Evening

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 core requirement in humanities/fine arts (substitute). This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Hybrid

COM 232 Election Rhetoric On Demand Day **3 0 3**
On Demand Evening

This course provides an overview of communication styles and topics characteristic of election campaigns. Topics include election speeches, techniques used in election campaigns, and election speech topics. Upon completion, students should be able to identify and analyze techniques and styles typically used in election campaigns. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: COM 231 (Local)

Corequisites: None

COM 233 Persuasive Speaking

On Demand Day **3 0 3**
On Demand Evening

This course introduces theory and history of persuasive speaking, covering critical thinking skills in analyzing problems, assessing solutions, and communicating the information to an audience. Emphasis is placed on analysis, evidence, reasoning, and library and field research used to enhance persuasive public speaking skills. Upon completion, students should be able to apply the principles of persuasive speaking in a public setting. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: ENG 112 or ENG 113; and COM 231 (Local)

Corequisites: None

COM 251 Debate I

On Demand Day **3 0 3**
On Demand Evening

This course introduces the principles of debate. Emphasis is placed on argument, refutation, research, and logic. Upon completion, students should be able to use research skills and logic in the presentation of ideas within the context of formal debate. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: COM 231 (Local)

Corequisites: None

COM 252 Debate II

On Demand Day **3 0 3**
On Demand Evening

This course continues the study of debate begun in COM 251. Emphasis is placed on argument, refutation, research, and logic. Upon completion, students should be able to demonstrate proficiency in research skills, logic, and presentation of ideas within the context of formal debate. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: COM 251

Corequisites: None

COSMETOLOGY**COS 111 Cosmetology Concepts I**

F,S Day **4 0 4**
TBA Evening

This course introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics. Upon completion, students should be able to safely and competently apply cosmetology concepts in the salon setting.

Prerequisites: None

Corequisites: COS 112

COS 112 Salon I

F,S Day **0 24 8**
TBA Evening

This course introduces basic salon services. Topics include scalp treatments, shampooing, rinsing, hair color, design, haircutting, permanent waving, pressing, relaxing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate salon services.

Prerequisites: None

Corequisites: COS 111

COS 113 Cosmetology Concepts IIF,S Day
TBA Evening**4 0 4**

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

Prerequisites: COS 111 (Local)

Corequisites: COS 114

COS 114 Salon IIF,S Day
TBA Evening**0 24 8**

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

Prerequisites: COS 112 (Local)

Corequisites: COS 113

COS 115 Cosmetology Concepts IIISU Day
TBA Evening**4 0 4**

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

Prerequisites: COS 111 (Local)

Corequisites: COS 116

COS 116 Salon IIISU Day
TBA Evening**0 12 4**

This course provides comprehensive experience in a simulated salon setting. Emphasis is placed on intermediate level of skin care, manicuring, scalp treatments, shampooing, hair color, design, haircutting, chemical restructuring, pressing, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

Prerequisites: COS 112 (Local)

Corequisites: COS 115

COS 117 Cosmetology Concepts IVF,S Day
TBA Evening**2 0 2**

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements.

Prerequisites: COS 115 (Local)

Corequisites: COS 118

COS 118 Salon IVF,S Day
TBA Evening**0 21 7**

This course provides advanced experience in a simulated salon setting. Emphasis is placed on efficient and competent delivery of all salon services in preparation for the licensing examination and employment. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology Licensing Examination and meet entry-level employment requirements.

Prerequisites: COS 116 (Local)

Corequisites: COS 117

COS 119 Esthetics Concepts I

F Day **2 0 2**
TBA Evening

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.

Prerequisites: None

Corequisites: COS 120 (Local)

COS 120 Esthetics Salon I

F Day **0 18 6**
TBA Evening

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.

Prerequisites: None

Corequisites: COS 119 (Local)

COS 121 Manicure/Nail Technology I

TBA Day **4 6 6**
TBA Evening

This course covers techniques of nail technology, hand and arm massage, and recognition of nail diseases and disorders. Topics include OSHA/safety, sanitation, bacteriology, product knowledge, salesmanship, manicures, artificial applications, pedicures, massage, and other related topics. Upon completion, students should be able to safely and competently perform nail care, including manicures, pedicures, massage, decorating, and artificial applications in a salon setting.

Prerequisites: None

Corequisites: None

COS 125 Esthetics Concepts II

S Day **2 0 2**
TBA Evening

This course covers more comprehensive esthetics concepts. Topics include nutrition, business management, make-up, and color analysis. Upon completion, students should be able to demonstrate an understanding of the advanced esthetics concepts and meet course requirements.

Prerequisites: COS 119 & COS 120 (Local)

Corequisites: COS 126 (Local)

COS 126 Esthetics Salon II

S Day **0 18 6**
TBA Evening

This course provides experience in a simulated esthetics setting. Topics include machine facials, aroma therapy, 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.

Prerequisites: COS 119 & COS 120 (Local)

Corequisites: COS 125 (Local)

COS 222 Manicure/Nail Technology II

TBA Day **4 6 6**
TBA Evening

This course covers advanced techniques of nail technology and hand and arm massage. Topics include OSHA/safety, product knowledge, customer service, salesmanship, artificial applications, nail art, and other related topics. Upon completion, students should be able to demonstrate competence necessary for the licensing examination, including advanced nail care, artificial enhancements, and decorations.

Prerequisites: COS 121

Corequisites: None

COS 223 Contemporary Hair ColoringS Day
TBA Evening**1 3 2**

This course covers basic color concepts, hair coloring problems, and application techniques. Topics include color theory, terminology, contemporary techniques, product knowledge, and other related topics. Upon completion, students should be able to identify a client's color needs and safely and competently perform color applications and correct problems.

Prerequisites: COS 111 and COS 112; and COS 115 and COS 116 (Local)

Corequisites: COS 240 (Local)

COS 240 Contemporary DesignS Day
On Demand Evening**1 3 2**

This course covers methods and techniques for contemporary designs. Emphasis is placed on contemporary designs and other related topics. Upon completion, students should be able to demonstrate and apply techniques associated with contemporary design.

Prerequisites: COS 111 and COS 112; COS 115/116 (Local)

Corequisites: COS 223 (Local)

COS 251 Manicuring Instructor ConceptsOn Demand Day
On Demand Evening**8 0 8**

This course introduces manicuring instructional concepts. Topics include orientation, theories of education, unit planning, daily lesson planning, laboratory management, student assessment, record keeping, and other related topics. Upon completion, students should be able to identify theories of education, develop lesson plans, demonstrate supervision techniques, and assess student classroom performance.

Prerequisites: Current North Carolina Manicurist or Cosmetologist License and six months' experience as a licensed cosmetologist or manicurist. (Local)

Corequisites: COS 252 (Local)

COS 252 Manicuring Instructor PracticumOn Demand Day
On Demand Evening**0 15 5**

This course covers supervisory and instructional skills for teaching manicuring students in a laboratory setting. Topics include demonstrations of services, supervision, student assessment, and other related topics. Upon completion, students should be able to demonstrate competence in the areas covered by the Manicuring Instructor Licensing Examination and meet program completion requirements.

Prerequisites: Current North Carolina Manicurist or Cosmetologist License and six months' experience as a licensed cosmetologist or manicurist. (Local)

Corequisites: COS 251

COS 253 Esthetics Instructor Concepts IOn Demand Day
On Demand Evening**6 15 11**

This course introduces esthetic instructional concepts and skills. Topics include orientation, theories of education, unit planning, daily lesson plans, laboratory management, and student assessment in a laboratory setting. Upon completion, students should be able to demonstrate esthetic services and instruct and objectively assess student performance in a classroom setting.

Prerequisites: Current North Carolina Cosmetologist or Esthetician License and six months' experience as a licensed esthetician or cosmetologist. (Local)

Corequisites: None

COS 254 Esthetics Instructor Concepts IIOn Demand Day **6 15 11**
On Demand Evening

This course covers advanced esthetic instructional concepts and skills. Topics include practical demonstrations, lesson planning, lecture techniques, development and administration of assessment tools, record keeping and other related topics. Upon completion, students should be able to demonstrate competencies in the areas covered by the Esthetics Instructor Licensing Examination and meet program requirements.

Prerequisites: Current North Carolina Cosmetologist or Esthetician License and six months' experience as a licensed esthetician or cosmetologist (Local)

Corequisites: None

COS 271 Instructor Concepts ITBA Day **5 0 5**
TBA Evening

This course introduces the basic cosmetology instructional concepts. Topics include orientation, theories of education, unit planning, daily lesson planning, laboratory management, student assessment, record keeping, and other related topics. Upon completion, students should be able to identify theories of education, develop lesson plans, demonstrate supervisory techniques, and assess student performance in a classroom setting.

Prerequisites: Current North Carolina Cosmetologist License and six months' experience as a licensed cosmetologist (Local)

Corequisites: COS 272

COS 272 Instructor Practicum ITBA Day **0 21 7**
TBA Evening

This course covers supervisory and instructional skills for teaching entry-level cosmetology students in a laboratory setting. Topics include demonstrations of services, supervision, and entry-level student assessment. Upon completion, students should be able to demonstrate salon services and instruct and objectively assess the entry-level student.

Prerequisites: Current North Carolina Cosmetologist License and six months' experience as a licensed cosmetologist (Local)

Corequisites: COS 271

COS 273 Instructor Concepts IITBA Day **5 0 5**
TBA Evening

This course covers advanced cosmetology instructional concepts. Topics include practical demonstrations, lesson planning, lecture techniques, development and administration of assessment tools, record keeping, and other related topics. Upon completion, students should be able to develop lesson plans, demonstrate supervision techniques, assess student performance in a classroom setting, and keep accurate records.

Prerequisites: COS 271 and COS 272

Corequisites: COS 274

COS 274 Instructor Practicum IITBA Day **0 21 7**
TBA Evening

This course is designed to develop supervisory and instructional skills for teaching advanced cosmetology students in a laboratory setting. Topics include practical demonstrations, supervision, and advanced student assessment. Upon completion, students should be able to demonstrate competence in the areas covered by the Instructor Licensing Examination and meet program completion requirements.

Prerequisites: COS 271 and COS 272

Corequisites: COS 273

COMPUTER SCIENCE

CSC 134 C++ Programming

F, S Day 2 3 3
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, MAT 175 or acceptable placement test score (Local)

Corequisites: CIS 115 or ELN 133 (Local)

CSC 135 COBOL Programming

F Day 2 3 3
On Demand Evening

This course introduces computer programming using the COBOL programming language with structured programming principles. Topics include input/output operations, iteration, arithmetic operations, arrays, pointers, filters, and other related topics. Upon completion, students should be able to design, code, test and debug at a beginning level.

Prerequisites: None

Corequisites: None

CSC 139 Visual BASIC Programming

F, S Day 2 3 3
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, MAT 175 or acceptable placement test score (Local)

Corequisites: CIS 115 or ELN 133 (Local)

CSC 151 JAVA Programming

F Day 2 3 3
On Demand Evening

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.*

Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, MAT 175 or acceptable placement test score

Corequisites: ELN 133 or CIS 115 (Local)

CSC 153 C# Programming

S Day 2 3 3
On Demand Evening

This course introduces computer programming using the C# programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment at the beginning level.

Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, MAT 175 or acceptable placement test score and RED 090 or acceptable placement test score (Local)

Corequisites: CIS 115 (Local)

CSC 234 Advanced C++ Programming

F Day 2 3 3
On Demand Evening

This course is a continuation of CSC 134 using the C++ programming language with standard programming principles. Emphasis is placed on advanced arrays/tables, file management/processing techniques, data structures, sub-programs, interactive processing, sort/merge routines, and libraries. Upon completion, students should be able to design, code, test, debug, and document programming solutions.

Prerequisites: CIS 115 (Local); CSC 134

Corequisites: None

CSC 235 Advanced COBOL Programming

S Day 2 3 3
On Demand Evening

This course is a continuation of CSC 135 using the COBOL programming language with structured programming principles. Emphasis is placed on advanced arrays/tables, file management/processing techniques, data structures, sub-programs, interactive processing, sort/merge routines, and libraries. Upon completion, students should be able to design, code, test, debug, and document programming solutions.

Prerequisites: CSC 135

Corequisites: None

CSC 239 Advanced Visual BASIC Programming

S Day 2 3 3
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: CSC 115 (Local); CSC 139

Corequisites: None

Distance Education: Hybrid

CSC 251 Advanced JAVA Programming

On Demand Day 2 3 3
On Demand Evening

This course is a continuation of CSC 151 using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment.

Prerequisites: CIS 115 (Local); CSC 151

Corequisites: None

CSC 289 Programming Capstone Project

S Day 1 4 3
On Demand Evening

This course provides an opportunity to complete a significant programming project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete a project from the definition phase through implementation.

Prerequisites: CTS 285 and completion of 60 credit hours

Corequisites: None

CONSTRUCTION

CST 241 Planning/Estimating I

S On Demand Day 2 2 3
S On Demand Evening

This course covers the procedures involved in planning and estimating a residential structure. Topics include labor and equipment with emphasis placed on quantity take-off of materials necessary to construct a residential structure. Upon completion, students should be able to accurately complete a take-off of materials and equipment needs and plan the labor to construct a residential structure.

Prerequisites: BPR 130 or MAT 120, MAT 121, MAT 161, MAT 171 or MAT 175

Corequisites: None

COMPUTER INFORMATION TECHNOLOGY

CTS 080 Computing Fundamentals

F,S,SU Day 2 3 3
F,S,SU Evening

This course covers fundamental functions and operations of the computer. Topics include identification of components and basic computer operations including introduction to operating systems, the Internet, web browsers, and communication using World Wide Web. Upon completion, students should be able to operate computers, access files, print documents and perform basic applications operations. *This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: None

Corequisites: None

CTS 120 Hardware/Software Support

S Day 2 3 3
S Evening

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.

Prerequisites: CIS 110 or CIS 111

Corequisites: None

Distance Education: Hybrid

CTS 125 Presentation Graphics

TBA Day **2 2 3**
TBA Evening

This course provides hands-on experience with a graphics presentation package. Topics include terminology, effective chart usage, design and layout, integrating hardware components, and enhancing presentations with text, graphics, audio and video. Upon completion, students should be able to design and demonstrate an effective presentation.

Prerequisites: CIS 110 or CIS 111

Corequisites: None

Distance Education: Internet

CTS 130 Spreadsheet

On Demand Day **2 2 3**
On Demand Evening

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. Students will use the Excel software package in this course.

Prerequisites: MAT 060 or appropriate placement test score (local) and CIS 110 or CIS 111 or OST 137

Corequisites: None

Distance Education: Internet

CTS 135 Integrated Software Introduction

SU Day **2 4 4**
On Demand Evening

This course instructs students in the Windows or Linux based program suites for word processing, spreadsheet, database, personal information manager, and presentation software. This course prepares students for introductory level skills in database, spreadsheet, personal information manager, word processing, and presentation applications to utilize data sharing. Upon completion, students should be able to design and integrate data at an introductory level to produce documents using multiple technologies.

Prerequisites: CIS 110 or CIS 111

Corequisites: None

Distance Education: Hybrid

CTS 210 Computer Ethics

On Demand Day **3 0 3**
On Demand Evening

This course introduces the student to current legal and ethical issues in the computer/engineering field. Topics include moral reasoning, ethical standards, intellectual property, social issues, encryption, software piracy, constitutional issues, and public policy in related matters. Upon completion, students should be able to demonstrate an understanding of the moral and social responsibilities and public policy issues facing an industry.

Prerequisites: CIS 110 or CIS 111 or NET 110 or TNE 111

Corequisites: None

CTS 220 Adv.Hardware/Software Support

On Demand Day **2 3 3**
On Demand Evening

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.

Prerequisites: CTS 120

Corequisites: None

Distance Education: Hybrid

CTS 230 Advanced Spreadsheet Internet Only **2 2 3**

This course covers advanced spreadsheet design and development. Topics include advanced functions and statistics, charting, macros, databases, and linking. Upon completion, students should be able to demonstrate competence in designing complex spreadsheets. Students will use the Excel software package in this course.

Prerequisites: CTS 130 with a grade of "C" or higher

Corequisites: None

Distance Education: Internet, Hybrid

CTS 240 Project Management F Day **2 2 3**

On Demand Evening

This course introduces computerized project management software. Topics include identifying critical paths, cost management, and problem solving. Upon completion, students should be able to plan a complete project and project time and costs accurately.

Prerequisites: CIS 110 or CIS 111

Corequisites: None

CTS 285 Systems Analysis & Design Internet Only **3 0 3**

This course introduces established and evolving methodologies for the analysis, design, and development of an information system. Emphasis is placed on system characteristics, managing projects, prototyping, CASE/OOM tools, and systems development life cycle phases. Upon completion, students should be able to analyze a problem and design an appropriate solution using a combination of tools and techniques.

Prerequisites: CIS 115

Corequisites: None

Distance Education: Internet

CTS 289 System Support Project S Day **1 4 3**

S Evening

This course provides an opportunity to complete a significant support project with minimal instructor assistance. Emphasis is placed on written and oral communication skills, project definition, documentation, installation, testing, presentation, and user training. Upon completion, students should be able to complete a project from the definition phase through implementation.

Prerequisites: CTS 135 and DBA 115 (Local) and CTS 285

Corequisites: None

Distance Education: Hybrid

DATABASE MANAGEMENT TECHNOLOGY

DBA 110 Database Concepts F Day **2 3 3**

F Evening S On Demand

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms.

Prerequisites: CIS 110 (Local)

Corequisites: None

Distance Education: Hybrid

DBA 115 Database Applications

S Day **2 2 3**
S On Demand

This course applies concepts learned in DBA 110 to a specific DBMS. Topics include manipulating multiple tables, advanced queries, screens and reports, linking, and command files. Upon completion, students should be able to create multiple table systems that demonstrate updates, screens, and reports representative of industry requirements.

Prerequisites: DBA 110 with a grade of "C" or higher

Corequisites: None

Distance Education: Hybrid

DENTAL**DEN 100 Basic Orofacial Anatomy**

F Day **2 0 2**
No Evening

This course provides a basic introduction to the structures of the head, neck, and oral cavity. Topics include tooth morphology, head and neck anatomy, histology, and embryology. Upon completion, students should be able to demonstrate knowledge of normal structures and development and how they relate to the practice of dental assisting.

This is a diploma-level course.

Prerequisites: Enrollment in the Dental Assisting program

Corequisites: None

Distance Education: Internet

DEN 101 Preclinical Procedures

F Day **4 6 7**
No Evening

This course provides instruction in procedures for the clinical dental assistant as specified by the North Carolina Dental Practice Act. Emphasis is placed on orientation to the profession; infection control techniques; instruments; related expanded functions; and diagnostic, operative, and specialty procedures. Upon completion, students should be able to demonstrate proficiency in clinical dental assisting procedures. *This is a diploma-level course.*

Prerequisites: Enrollment in the Dental Assisting program

Corequisites: None

Distance Education: Hybrid

DEN 102 Dental Materials

F Day **3 4 5**
No Evening

This course provides instruction in identification, properties, evaluation of quality, principles, and procedures related to manipulation and storage of operative and specialty dental materials. Emphasis is placed on the understanding and safe application of materials used in the dental office and laboratory. Upon completion, students should be able to demonstrate proficiency in the laboratory and clinical application of routinely used dental materials. *This is a diploma-level course.*

Prerequisites: Enrollment in the Dental Assisting program

Corequisites: None

DEN 103 Dental SciencesS Day 2 0 2
No Evening

This course is a study of oral pathology, pharmacology, and dental office emergencies. Topics include oral pathological conditions, dental therapeutics, and management of emergency situations. Upon completion, students should be able to recognize abnormal oral conditions, identify classifications, describe actions and effects of commonly prescribed drugs, and respond to medical emergencies. *This is a diploma-level course.*

Prerequisites: Enrollment in the Dental Assisting program

Corequisites: None

Distance Education: Internet

DEN 104 Dental Health EducationS Day 2 2 3
No Evening

This course covers the study of preventive dentistry to prepare dental assisting students for the role of dental health educator. Topics include etiology of dental diseases, preventive procedures, and patient education theory and practice. Upon completion, students should be able to demonstrate proficiency in patient counseling and oral health instruction in private practice or public health settings. *This is a diploma-level course.*

Prerequisites: Enrollment in the Dental Assisting program

Corequisites: None

Distance Education: Hybrid

DEN 105 Practice ManagementS Day 2 0 2
No Evening

This course provides a study of principles and procedures related to management of the dental practice. Emphasis is placed on maintaining clinical and financial records, patient scheduling, and supply and inventory control. Upon completion, students should be able to demonstrate fundamental skills in dental practice management. *This is a diploma-level course.*

Prerequisites: Enrollment in the Dental Assisting program

Corequisites: None

Distance Education: Internet

DEN 106 Clinical Practice IS Day 1 12 5
No Evening

This course is designed to provide experience assisting in a clinical setting. Emphasis is placed on the application of principles and procedures of four-handed dentistry and laboratory and clinical support functions. Upon completion, students should be able to utilize classroom theory and laboratory and clinical skills in a dental setting. *This is a diploma-level course.*

Prerequisites: DEN 101

Corequisites: None

Distance Education: Hybrid

DEN 107 Clinical Practice IISU Day 1 12 5
No Evening

This course is designed to increase the level of proficiency in assisting in a clinical setting. Emphasis is placed on the application of principles and procedures of four-handed dentistry and laboratory and clinical support functions. Upon completion, students should be able to combine theoretical and ethical principles necessary to perform entry-level skills including functions delegable to a DA II. *This is a diploma-level course.*

Prerequisites: DEN 106

Corequisites: None

Distance Education: Hybrid

DEN 111 Infection/Hazard Control

F Day **2 0 2**
No Evening

This course introduces the infection and hazard control procedures necessary for the safe practice of dentistry. Topics include microbiology, practical infection control, sterilization and monitoring, chemical disinfectants, aseptic technique, infectious diseases, OSHA standards, and applicable North Carolina laws. Upon completion, students should be able to understand infectious diseases, disease transmission, infection control procedures, biohazard management, OSHA standards, and applicable North Carolina laws.

Prerequisites: Enrollment in the Dental Assisting program

Corequisites: None

Distance Education: Internet

DEN 112 Dental Radiography

S Day **2 3 3**
No Evening

This course provides a comprehensive view of the principles and procedures of radiology as they apply to dentistry. Topics include techniques in exposing, processing, and evaluating radiographs, as well as radiation safety, quality assurance, and legal issues. Upon completion, students should be able to demonstrate proficiency in the production of diagnostically acceptable radiographs using appropriate safety precautions.

Prerequisites: Enrollment in the Dental Assisting program

Corequisites: None

Distance Education: Hybrid

DESIGN DRAFTING**DDF 211 Design Process I**

SU Day **1 6 4**
On Demand Evening

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.

Prerequisites: DFT 112 (Local)

Corequisites: None

DRAFTING**DFT 111 Technical Drafting I**

F Day **1 3 2**
F Evening

This course introduces basic drafting skills, equipment, and applications. Topics include sketching, measurements, lettering, dimensioning, geometric construction, orthographic projections and pictorial drawings, sections, and auxiliary views. Upon completion, students should be able to understand and apply basic drawing principles and practices.

Prerequisites: None

Corequisites: DFT 111A (Local)

DFT 111A Technical Drafting I Lab

F Day **0 3 1**
F Evening

This course provides a laboratory setting to enhance basic drafting skills. Emphasis is placed on practical experiences that enhance the topics presented in DFT 111. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in DFT 111.

Prerequisites: None

Corequisites: DFT 111; and DFT 151 (Local)

DFT 112 Technical Drafting IIS Day 1 3 2
S Evening

This course provides for advanced drafting practices and procedures. Topics include detailed working drawings, hardware, fits and tolerances, assembly and sub-assembly, geometric dimensioning and tolerancing, intersections, and developments. Upon completion, students should be able to produce detailed working drawings.

Prerequisites: DFT 111

Corequisites: DFT 112A (Local)

DFT 112A Technical Drafting II LabS Day 0 3 1
S Evening

This course provides a laboratory setting to enhance advanced drafting skills. Emphasis is placed on practical experiences that enhance the topics presented in DFT 112. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in DFT 112.

Prerequisites: None

Corequisites: DFT 112

DFT 119 Basic CADOn Demand Day 1 2 2
On Demand Evening

This course introduces computer-aided drafting software for specific technologies to non-drafting majors. Emphasis is placed on understanding the software command structure and drafting standards for specific technical fields. Upon completion, students should be able to create and plot basic drawings.

Prerequisites: CIS 110 or CIS 111 (Local)

Corequisites: None

DFT 121 Intro. to Geometric Dimen. & Tol.S Day 1 2 2
On Demand Evening

This course introduces basic geometric dimensioning and tolerancing principles. Topics include symbols, annotation, theory, and applications. Upon completion, students should be able to interpret and apply basic geometric dimensioning and tolerancing principles to drawings.

Prerequisites: DFT 111 (Local)

Corequisites: None

DFT 151 CAD IF Day 2 3 3
On Demand Evening

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.

Prerequisites: None

Corequisites: None

DFT 152 CAD IIS Day 2 3 3
On Demand Evening

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.

Prerequisites: DFT 151 (Local)

Corequisites: None

DFT 153 CAD III

SU Day **2 3 3**
On Demand Evening

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.

Prerequisites: DFT 152 (Local)

Corequisites: None

DFT 170 Engineering Graphics

S On Demand Day **2 2 3**
S On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

ECONOMICS**ECO 151 Survey of Economics**

F, S Day **3 0 3**
F,S Evening

This course introduces basic concepts of micro- and macroeconomics. Topics include supply and demand, optimizing economic behavior, prices and wages, money, interest rates, banking system, unemployment, inflation, taxes, government spending, and international trade. Upon completion, students should be able to explain alternative solutions for economic problems faced by private and government sectors. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Prerequisites: MAT 080 or acceptable placement test score (Local)

Corequisites: None

Distance Education: Internet, Hybrid

ECO 251 Principles of Microeconomics

F Day **3 0 3**
F Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 080 or acceptable placement test score (Local)

Corequisites: None

Distance Education: Internet, Hybrid

ECO 252 Principles of Macroeconomics S Day **3 0 3**
S Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 080 or acceptable placement test score (Local)

Corequisites: None

Distance Education: Internet, Hybrid

EDUCATION

EDU 118 Teacher Assoc. Principles & Practices No Day **3 0 3**
F Evening

This course covers the teacher associate's role in the educational system. Topics include history of education, professional responsibilities and ethics, cultural diversity, communication skills, and identification of the optimal learning environment. Upon completion, students should be able to describe the supporting professional role of the teacher associate, demonstrate positive communication, and discuss educational philosophy. *This course is a unique concentration requirement in the Teacher Associate concentration in the Early Childhood Associate program.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

EDU 119 Intro. to Early Childhood Education F Day **4 0 4**
F,SU Evening

This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for children. Topics include historical foundations, program types, career options, professionalism, and creating inclusive environments and curriculum that are responsive to the needs of children and families. Upon completion, students should be able to design career plans and develop appropriate schedules, environments and activity plans while incorporating adaptations for children with exceptionalities. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College.*

Prerequisites: None

Corequisites: None

EDU 126PS Early Childhood Seminar I (Preschool)

F Day 2 0 2
No Evening

This course will introduce the students to the early childhood classroom setting and the roles that professionals play in that setting. Emphasis is placed on observation of children/teachers in the classroom, and the use of assessment tools to enhance planning and implementation of curricular experiences. Upon completion, students should be able to use various child assessment tools, determine developmental characteristics of children, and plan developmentally appropriate curricula for preschool children. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College.*

Prerequisites: EDU 119 or EDU 111 and EDU 112, or EDU 111 and EDU 113;
permission from EC advisor required

Corequisites: COE 111PS

EDU 126SA Early Childhood Seminar I (School Age)

F Day 2 0 2
No Evening

This course will introduce the students to the early childhood classroom setting and the roles that professionals play in that setting. Emphasis is placed on observation of children/teachers in the classroom, and the use of assessment tools to enhance planning and implementation of curricular experiences. Upon completion, students should be able to use various child assessment tools, determine developmental characteristics of children, and plan developmentally appropriate curricula for school-age children. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College.*

Prerequisites: EDU 119 or EDU 111 and EDU 112, or EDU 111 and EDU 113;
permission from EC advisor required

Corequisites: COE 111SA

EDU 131 Children, Family, and Community

S Day 3 0 3
S Evening

This course covers the development of partnerships between families, inclusive programs for children/schools that serve young children with and without disabilities, and the community. Emphasis is placed on requisite skills and benefits for successfully establishing, supporting, and maintaining respectful collaborative relationships between today's diverse families, centers/schools, and community resources. Upon completion, students should be able to describe appropriate relationships with parents/caretakers, center/school colleagues, and community agencies that enhance the educational experiences/well-being of all children. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

EDU 144 Child Development I

F Day

3 0 3

F Evening

This course covers the theories of child development, developmental sequences, and factors that influence children's development, from conception through pre-school for all children. Emphasis is placed on sequences in physical/motor, social, emotional, cognitive, and language development and the multiple influences on development and learning of the whole child. Upon completion, students should be able to identify typical and atypical developmental characteristics, plan experiences to enhance development, and describe appropriate interaction techniques and environments. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College*

Prerequisites: None

Corequisites: None

Distance Education: Internet

EDU 145 Child Development II

S Day

3 0 3

S Evening

This course covers theories of child development, developmental sequences, and factors that influence children's development, from pre-school through middle childhood for all children. Emphasis is placed on sequences in physical/motor, social, emotional, cognitive, and language development multiple influences on development and learning of the whole child. Upon completion, students should be able to identify typical and atypical developmental characteristics, plan experiences to enhance development, and describe appropriate interaction techniques and environments. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College*

Prerequisites: None

Corequisites: None

Distance Education: Internet

EDU 146 Child Guidance

S Day

3 0 3

S Evening

This course introduces practical principles and techniques for providing developmentally appropriate guidance for all children with and without disabilities, including those at risk. Emphasis is placed on encouraging self-esteem, cultural awareness, effective communication skills, direct/indirect techniques/strategies and observation to understand the underlying causes of behavior. Upon completion, students should be able to demonstrate appropriate interactions with children and families and promote conflict resolution, self-control, self-motivation, and self-esteem in children. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

EDU 151 Creative Activities

F Day

3 0 3

F Evening

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 physical skills, and dramatics. Upon completion, students should be able to create, manage, adapt and evaluate developmentally supportive learning materials, experiences and environments. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College.*

Prerequisites: None

Corequisites: None

EDU 153 Health, Safety, and Nutrition

F Day
F Evening

3 0 3

This course focuses on 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, implement safe learning environments, and adhere to state regulations. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

EDU 186 Reading and Writing Methods

South Campus Only

No Day
S Evening

3 0 3

This course covers concepts, resources, and methods for teaching reading and writing to school-age children. Topics include the importance of literacy, learning styles, skills assessment, various reading and writing approaches, and instructional strategies. Upon completion, students should be able to assess, plan, implement, and evaluate developmentally appropriate reading and writing experiences. *This course is a unique concentration requirement in the Teacher Associate concentration in the Early Childhood Associate program.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

EDU 221 Children with Exceptionalities

F Day
F Evening

3 0 3

This course, based on the foundation of typical development, introduces working with children with exceptionalities. Emphasis is placed on the characteristics and assessment of children and strategies for adapting the learning environment. Upon completion, students should be able to recognize atypical development, make appropriate referrals, collaborate with families and professionals to plan, implement, and evaluate inclusion strategies. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College.* Please note that this course is a writing intensive course; see page 287 for a description of writing intensive courses.

Prerequisites: RED 090 or appropriate placement test score (Local)

and EDU 144 and EDU 145 or PSY 244 and PSY 245

Corequisites: None

Distance Education: Internet

EDU 226PS Early Childhood Seminar II (Preschool) S Day 2 0 2
No Evening

This course is designed to expand students' knowledge of the early childhood classroom and the roles professionals play in that setting. Emphasis is placed on creating child portfolios that enhance planning and implementation of curriculum for all children and the development of individual professional portfolios. Upon completion, students should be able to develop child portfolios and create individual professional development plans.

Prerequisites: COE 111PS; EDU 144 or EDU 145; EDU 146; permission from EC advisor required

Corequisites: COE 121PS

Distance Education: Hybrid

EDU 226SA Early Childhood Seminar II (School-Age) S Day 2 0 2
No Evening

This course is designed to expand students' knowledge of the early childhood classroom and the roles professionals play in that setting. Emphasis is placed on creating child portfolios that enhance planning and implementation of curriculum for all children and the development of individual professional portfolios. Upon completion, students should be able to develop child portfolios and create individual professional development plans.

Prerequisites: COE 111SA; EDU 144 or EDU 145; EDU 146; permission from EC advisor required

Corequisites: COE 121SA

Distance Education: Hybrid

EDU 234 Infants, Toddlers and Twos S Day 3 0 3
S Evening

This course covers the skills needed to effectively implement group care for infants, toddlers, and two-year olds. Emphasis is placed on child development and developmentally appropriate practices. Upon completion, students should be able to identify, plan, select materials and equipment, and implement and evaluate a developmentally appropriate curriculum. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

EDU 235 School-Age Development & Programs F Day 2 0 2
F Evening

This course presents developmentally appropriate practices in group care for school-age children. Topics include principles of development, environmental planning, and positive guidance techniques. Upon completion, students should be able to discuss developmental principles for children five to twelve years of age and plan and implement age-appropriate activities.

Prerequisites: None

Corequisites: None

Distance Education: Internet

EDU 251 Exploration Activities F Day 3 0 3
F Evening

This course covers discovery experiences in science, math, and social studies. Emphasis is placed on developing concepts for each area and encouraging young children to explore, discover, and construct concepts. Upon completion, students should be able to discuss the discovery approach to teaching, explain major concepts in each area, and plan appropriate experiences for children. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College.*

Prerequisites: RED 090 or appropriate placement score (Local)

Corequisites: None

EDU 254 Music and Movement for ChildrenTBA Day 1 2 2
TBA Evening

This course covers the use of music and creative movement for children. Topics include a general survey of the basic elements of music and planning, designing, and implementing music and movement experiences for creative learning. Upon completion, students should be able to use voice and various musical instruments to provide musical and movement activities for children.

Prerequisites: None

Corequisites: None

EDU 259 Curriculum PlanningTBA Day 3 0 3
S Evening

This course covers early childhood curriculum planning. Topics include philosophy, curriculum, indoor and outdoor environmental design, scheduling, observation and assessment, and instructional planning and evaluation. Upon completion, students should be able to assess children and curriculum; plan for daily, weekly, and long-range instruction; and design environments with appropriate equipment and supplies. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local) and
EDU 112 or EDU 113 or EDU 119

Corequisites: None

Distance Education: Internet

EDU 261 Early Childhood Admin. INo Day 3 0 3
F,S Evening

This course covers the policies, procedures, and responsibilities for the management of early childhood education programs. Topics include implementation of goals, principles of supervision, budgeting and financial management, and meeting the standards for a NC Child Day Care License. Upon completion, students should be able to develop program goals, explain licensing standards, determine budgeting needs, and describe effective methods of personnel supervision.

Prerequisites: None

Corequisites: None

Distance Education: Internet

EDU 262 Early Childhood Admin. IINo Day 3 0 3
F,S Evening

This course provides a foundation for budgetary, financial, and personnel management of the child care center. Topics include budgeting, financial management, marketing, hiring, supervision, and professional development of a child care center. Upon completion, students should be able to formulate marketing, financial management, and fund development plans, and develop personnel policies, including supervision and staff development plans.

Prerequisites: EDU 261

Corequisites: None

Distance Education: Internet

EDU 271 Educational Technology S Day 2 2 3
S Evening

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. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet

EDU 275 Effective Teaching Training S Day 2 0 2
No Evening

This course provides specialized training using an experienced-based approach to learning. Topics include instructional preparation and presentation, student interaction, time management, learning expectations, evaluation, and curriculum principles and planning. Upon completion, students should be able to prepare and present a six-step lesson plan and demonstrate ways to improve students' time-on-task.

Prerequisites: None

Corequisites: None

EDU 280 Language & Literacy Experiences F Day 3 0 3
F Evening

This course explores the continuum of children's communication development, including verbal and written language acquisition and other forms of communication. Topics include selection of literature and other media, the integration of literacy concepts throughout the classroom environment, inclusive practices and appropriate assessments. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate literacy experiences. *This course may satisfy a major course for the Birth-Kindergarten Education Major at Catawba College, UNC-Charlotte, and Livingstone College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Hybrid

EDU 282 Early Childhood Literature S Day 3 0 3
S Evening

This course covers the history, selection, and integration of literature and language in the early childhood curriculum. Topics include the history and selection of developmentally appropriate children's literature and the use of books and other media to enhance language and literacy in the classroom. Upon completion, students should be able to select appropriate books for storytelling, reading aloud, puppetry, flannel board use, and other techniques. Please note that this course is a writing intensive course; see page 287 for a description of writing intensive courses.

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

EDU 285 Internship Experiences-School Age S Day 1 0 1 No Evening

This course provides an opportunity to discuss internship experiences with peers and faculty. Emphasis is placed on evaluating and integrating practicum experiences. Upon completion, students should be able to demonstrate competence in early childhood education. *This course is a unique requirement in the Teacher Associate concentration in the Early Childhood Associate program.*

Prerequisites: ENG 111

Corequisites: COE 121SA; and EDU 286 (Local)

EDU 286 Early Childhood Issues S Day 1 0 1 No Evening

This course provides an opportunity to discuss the application of skills in a developmentally appropriate early childhood environment. Emphasis is placed on developing strategies for reaching competency goals and objectives and on planning and developing curriculum. Upon completion, students should be able to demonstrate competence in classroom management skills and in developing, implementing, and evaluating curriculum plans. Students will discuss and evaluate developmentally appropriate curriculum and environments for school-age programs.

Prerequisites: ENG 111

Corequisites: COE 121SA; and EDU 285 (Local)

ENGINEERING

EGR 115 Introduction to Technology F On Demand Day 2 3 3 F On Demand Evening

This course introduces the basic skills and career fields for technicians. Topics include career options, technical vocabulary, dimensional analysis, measurement systems, engineering graphics, calculator applications, professional ethics, safety practices, and other related topics. Upon completion, students should be able to demonstrate an understanding of the basic technologies, prepare drawings and sketches, and perform computations using a scientific calculator.

Prerequisites: None

Corequisites: None

EGR 125 Applications Software for Tech. F On Demand Day 1 2 2 F On Demand Evening

This course introduces personal computer software and teaches students how to customize the software for technical applications. Emphasis is placed on the use of common office applications software such as spreadsheets, word processing, graphics, and Internet access. Upon completion, students should be able to demonstrate competency in using applications software to solve technical problems and communicate the results in text and graphical formats.

Prerequisites: None

Corequisites: None

EGR 285 Design Project S Day 0 4 2 No Evening

This course provides the opportunity to design an instructor-approved project using previously acquired skills. Emphasis is placed on selection, proposal, design, testing, and documentation of the approved project. Upon completion, students should be able to present and demonstrate projects.

Prerequisites: ELN 131 and ELN 133 (Local)

Corequisites: None

ELECTRICITY

ELC 112 DC/AC Electricity

F Day 3 6 5
TBA Evening

This course introduces the fundamental concepts of and computations related to DC/AC electricity. Emphasis is placed on DC/AC circuits, components, operation of test equipment, and other related topics. Upon completion, students should be able to construct, verify, troubleshoot and repair DC/AC circuits.

Prerequisites: None

Corequisites: ELC 126 (Local)

ELC 113 Basic Wiring I

F Day 2 6 4
TBA Evening

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 and layout; 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.

Prerequisites: None

Corequisites: ELC 118 (Local)

ELC 115 Industrial Wiring

SU Day 2 6 4
TBA Evening

This course covers layout, planning, and installation of wiring systems in industrial facilities. Emphasis is placed on industrial wiring methods and materials. Upon completion, students should be able to install industrial systems and equipment.

Prerequisites: ELC 113 and ELC 117 (Local)

Corequisites: None

ELC 117 Motors and Controls

S Day 2 6 4
TBA Evening

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.

Prerequisites: ELC 111 or ELC 112 or ELC 131 (Local)

Corequisites: None

ELC 118 National Electrical Code

F Day 1 2 2
TBA Evening

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.

Prerequisites: None

Corequisites: None

ELC 119 NEC Calculations

SU Day 1 2 2
TBA Evening

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.

Prerequisites: ELC 118 (Local)

Corequisites: None

ELC 125 Diagrams and SchematicsS Day 1 2 2
TBA Evening

This course covers the interpretation of electrical diagrams, schematics, and drawings common to electrical applications. Emphasis is placed on reading and interpreting electrical diagrams and schematics. Upon completion, students should be able to read and interpret electrical diagrams and schematics.

Prerequisites: None

Corequisites: None

ELC 126 Electrical ComputationsF Day 2 2 3
TBA Evening

This course introduces the fundamental applications of mathematics which are used by an electrical/electronics technician. Topics include whole numbers, fractions, decimals, powers, roots, simple electrical formulas, and usage of a scientific calculator. Upon completion, students should be able to solve simple electrical mathematical problems.

Prerequisites: None

Corequisites: None

ELC 127 Software for TechniciansS Day 1 3 2
TBA Evening

This course introduces computer software which can be used to solve electrical/electronics problems. Topics include electrical/electronics calculations, and applications. Upon completion, students should be able to utilize a personal computer for electrical/electronics-related applications.

Prerequisites: None

Corequisites: None

ELC 128 Introduction to PLCTBA Day 2 3 3
TBA Evening

This course introduces the programmable logic controller (PLC) and its associated applications. Topics include ladder logic diagrams, input/output modules, power supplies, surge protection, selection/installation of controllers, and interfacing of controllers with equipment. Upon completion, students should be able to install PLCs and create simple programs.

Prerequisites: ELC 125 or ELC 117 (Local)

Corequisites: None

ELC 138 DC Circuit AnalysisF Day 2 3 3
TBA Evening

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.

Prerequisites: MAT 050 or appropriate placement test score (Local)

Co-requisites: None

ELC 139 AC Circuit AnalysisF Day 2 3 3
TBA Evening

This course introduces AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include AC voltages, circuit analysis laws and theorems, reactive components and circuits, transformers, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret AC circuit schematics; analyze and troubleshoot AC circuits; and properly use test equipment.

Prerequisites: None

Co-requisites: None

ELC 215 Electrical MaintenanceS Day 2 3 3
TBA Evening

This course introduces the theory of maintenance and the skills necessary to maintain electrical equipment found in industrial and commercial facilities. Topics include maintenance theory, predictive and preventive maintenance, electrical equipment operation and maintenance, and maintenance documentation. Upon completion, students should be able to perform maintenance on electrical equipment in industrial and commercial facilities.

Prerequisites: ELC 117 (Local)

Corequisites: None

ELC 228 PLC ApplicationsF Day 2 6 4
TBA Evening

This course covers programming and applications of programmable logic controllers. Emphasis is placed on programming techniques, networking, specialty I/O modules, and system troubleshooting. Upon completion, students should be able to specify, implement, and maintain complex PLC controlled systems.

Prerequisites: ELC 128 (Local)

Corequisites: None

ELECTRONICS**ELN 131 Semiconductor Applications**S Day 3 3 4
TBA Evening

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 discrete component circuits using appropriate techniques and test equipment.

Prerequisites: None

Corequisites: ELC 139 (Local)

ELN 132 Linear IC ApplicationsSU Day 3 3 4
TBA Evening

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.

Prerequisites: None

Corequisites: None

ELN 133 Digital ElectronicsS Day 3 3 4
TBA Evening

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.

Prerequisites: None

Corequisites: None

ELN 135 Electronic Circuits**S Day 2 3 3**
TBA Evening

This course covers discrete component amplifiers, power supplies, wave-shaping, oscillators, and special purpose ICs. Topics include feedback, analog arithmetic circuits, current and voltage sources, amplifiers, timers, filters, regulators, and other related circuits. Upon completion, students should be able to determine, by the configuration, the function of common analog circuits and troubleshoot circuits based on applications.

Prerequisites: ELN 131 (Local)

Corequisites: None

ELN 150 CAD for Electronics**F Day 1 3 2**
TBA Evening

This course introduces computer-aided drafting (CAD) with an emphasis on applications in the electronics field. Topics include electronics industry standards (symbols, schematic diagrams, layouts); drawing electronic circuit diagrams; and specialized electronic drafting practices and components such as resistors, capacitors, and ICs. Upon completion, students should be able to prepare electronic drawings with CAD software.

Prerequisites: None

Corequisites: None

ELN 229 Industrial Electronics**SU Day 3 3 4**
TBA Evening

This course covers semiconductor devices used in industrial applications. Topics include the basic theory, application, and operating characteristics of semiconductor devices. Upon completion, students should be able to install and/or troubleshoot these devices for proper operation in an industrial electronic circuit.

Prerequisites: ELC 139 (Local)

Corequisites: None

ELN 232 Introduction to Microprocessors**F Day 3 3 4**
TBA Evening

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.

Prerequisites: None

Corequisites: None

ELN 234 Communication Systems**F Day 3 3 4**
TBA Evening

This course introduces the fundamentals of electronic communication systems. Topics include the frequency spectrum, electrical noise, modulation techniques, characteristics of transmitters and receivers, and digital communications. Upon completion, students should be able to interpret analog and digital communication circuit diagrams, analyze transmitter and receiver circuits, and use appropriate communication test equipment.

Prerequisites: ELN 131 (Local)

Corequisites: None

ENGLISH

ENG 080 Writing Foundations

F,S,SU Day 3 2 4
On Demand Evening

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. *This course does not satisfy the developmental reading and writing prerequisite for ENG 111 or ENG 111A. This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: ENG 070 or ENG 075 or appropriate placement test score

Corequisites: None

ENG 085 Reading & Writing Foundations

On Demand Day 5 0 5
On Demand Evening

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. *This course integrates ENG 080 and RED 080. This course does not satisfy the developmental reading and writing prerequisites for ENG 111 or ENG 111A. This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: ENG 070 and RED 070 or ENG 075 or appropriate placement test scores

Corequisites: None

ENG 090 Composition Strategies

F,S,SU Day 3 0 3
F,S,SU Evening

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. *This course satisfies the developmental writing requirement for ENG 111 and ENG 111A. This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: ENG 080 or ENG 085 or appropriate placement test score

Corequisites: None

ENG 102 Applied Communications IIF,S,SU Day **3 0 3**
On Demand Evening

This course is designed to enhance writing and speaking skills for the workplace. Emphasis is placed on generating short writings such as job application documents, memoranda, and reports, and developing interpersonal communication skills with employees and the public. Upon completion, students should be able to prepare effective, short, and job-related written and oral communications. *This is a diploma-level course.*

Prerequisites: None

Corequisites: None

ENG 111 Expository WritingF,S,SU Day **3 0 3**
F,S,SU Evening

This course is the required first course in a series of two designed to develop the ability to produce clear expository prose. Emphasis is placed on the writing process including audience analysis, topic selection, thesis support and development, editing, and revision. Upon completion, students should be able to produce unified, coherent, and well-developed essays using standard written English. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 090 and RED 090 or appropriate placement test score; or
ENG 095 or appropriate placement test score.

Corequisites: None

Distance Education: Internet, Hybrid, Telecourse

ENG 112 Argument-Based ResearchF,S,SU Day **3 0 3**
F,S,SU Evening

This course, the second in a series of two, introduces research techniques, documentation styles, and argumentative strategies. Emphasis is placed on analyzing data and incorporating research findings into documented, argumentative essays and research projects. Upon completion, students should be able to summarize, paraphrase, interpret, and synthesize information from primary and secondary sources using standard research format and style. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 111

Corequisites: None

Distance Education: Internet, Telecourse

ENG 113 Literature-Based ResearchF,S,SU Day **3 0 3**
On Demand Evening

This course, the second in a series of two, expands the concepts developed in ENG 111 by focusing on writing that involves literature-based research and documentation. Emphasis is placed on critical reading and thinking and the analysis and interpretation of prose, poetry, and drama: plot, characterization, theme, cultural context, etc. Upon completion, students should be able to construct mechanically-sound, documented essays and research papers that analyze and respond to literary works. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 111

Corequisites: None

Distance Education: Internet

ENG 114 Professional Research & Reporting F,S,SU Day 3 0 3 F,S,SU Evening

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. Students planning to transfer should take ENG 111 and ENG 112 or ENG 111 and ENG 113 and should check with the university of their choice to make sure that they complete the appropriate English course. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 111

Corequisites: None

Distance Education: Internet

ENG 125 Creative Writing I F, S Day 3 0 3 On Demand Evening Internet On Demand

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 pre-major and/or elective course requirement.* Please note that this course is a writing intensive course; see page 287 for a description of writing intensive courses.

Prerequisites: ENG 111

Corequisites: None

Distance Education: Hybrid

ENG 126 Creative Writing II On Demand Day 3 0 3 On Demand Evening Internet On Demand

This course is designed as a workshop approach for advancing imaginative and literary skills. Emphasis is placed on the discussion of style, techniques, and challenges for first publications. Upon completion, students should be able to submit a piece of their writing for publication. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Please note that this course is a writing intensive course; see page 287 for a description of writing intensive courses.

Prerequisites: ENG 125

Corequisites: None

Distance Education: Internet

ENG 131 Introduction to Literature Telecourse & Internet 3 0 3

This course introduces the principle genres of literature. Emphasis is placed on literary terminology, devices, structure, and interpretation. Upon completion, students should be able to analyze and respond to literature. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 111 (Either ENG 112 or ENG 113 or ENG 114 is a required prerequisite for the ENG 131 course taught via Telecourse).

Corequisites: ENG 112 or ENG 113 or ENG 114

Distance Education: Internet, Hybrid, Telecourse

ENG 132 Introduction to Drama

On Demand Day **3 0 3**
On Demand Evening

This course provides intensive study of drama as a literary form, based on close reading of representative texts. Emphasis is placed on the development and analysis of drama. Upon completion, students should be able to interpret, analyze, and discuss the distinguishing features of drama. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: ENG 111

Corequisites: ENG 112 or ENG 113 or ENG 114

ENG 231 American Literature I

On Demand Day **3 0 3**
On Demand Evening

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 interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

ENG 232 American Literature II

On Demand Day **3 0 3**
On Demand Evening

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

Distance Education: Hybrid

ENG 235 Survey of Film as Literature

TBA Day **3 0 3**
TBA Evening

This course provides a study of the medium of film with a focus on the historical impact and the various literary genres of movies. Emphasis is placed on an appreciation of film as a form of literature which demonstrates various elements of fiction (character, setting, theme, etc.). Upon completion, students should be able to analyze film critically in various literary contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: ENG 113

Corequisites: None

ENG 241 British Literature IOn Demand Day **3 0 3**
On Demand Evening

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

ENG 242 British Literature IIOn Demand Day **3 0 3**
On Demand Evening

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

ENG 251 Western World Literature ITelecourse Only **3 0 3**

This course provides a survey of selected European works from the Classical period through the Renaissance. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

Distance Education: Telecourse

ENG 262 World Literature IIOn Demand Day **3 0 3**
On Demand Evening
Internet On Demand

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 core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

Distance Education: Internet

ENG 272 Southern LiteratureOn Demand Day **3 0 3**
On Demand Evening

This course provides an analytical study of the works of several Southern authors. Emphasis is placed on the historical and cultural contexts, themes, aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

ENG 273 African-American LiteratureF Day or **3 0 3**
F Evening

This course provides a survey of the development of African-American literature from its beginnings to the present. Emphasis is placed on historical and cultural context, themes, literary traditions, and backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and respond to selected texts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

ENG 274 Literature by WomenOn Demand Day **3 0 3**
On Demand Evening

This course provides an analytical study of the works of several women authors. Emphasis is placed on the historical and cultural contexts, themes and aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

Distance Education: Internet

FRENCH**FRE 111 Elementary French I**TBA Day **3 0 3**
TBA Evening

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 core requirement in humanities/fine arts; however, this course does not meet the SACS humanities/fine arts requirement in A.A.S. or diploma programs that require only one humanities/fine arts course. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: None

FRE 112 Elementary French IITBA Day
TBA Evening**3 0 3**

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 core requirement in humanities/fine arts; however, this course does not meet the SACS humanities/fine arts requirement in A.A.S. or diploma programs that require only one humanities/fine arts course. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: FRE 111

Corequisites: None

GEOGRAPHY**GEO 111 World Regional Geography**TBA Day
TBA Evening**3 0 3**

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 core requirement in social/behavioral sciences.*

Prerequisites: None

Corequisites: None

GEO 112 Cultural GeographyTBA Day
TBA Evening**3 0 3**

This course is designed to explore the diversity of human cultures and to describe their shared characteristics. Emphasis is placed on the characteristics, distribution, and complexity of earth's cultural patterns. Upon completion, students should be able to demonstrate an understanding of the differences and similarities in human cultural groups. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Prerequisites: None

Corequisites: None

GEO 113 Economic GeographyTBA Day
TBA Evening**3 0 3**

This course covers the patterns and networks of economic interdependence and how they affect human populations. Emphasis is placed on the economic aspects of the production and distribution of goods and services and their impact on the quality of human life. Upon completion, students should be able to describe different economic systems and demonstrate an understanding of the variables that influence economic development. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Prerequisites: None

Corequisites: None

GEO 121 North Carolina GeographyTBA Day
TBA Evening**3 0 3**

This course is a survey of the physical and cultural landscapes of North Carolina. Topics include physical characteristics of North Carolina, settlement patterns, resource use, and cultural variations. Upon completion, students should be able to demonstrate knowledge of the distinct physical and cultural features of North Carolina. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement, and meets the SACS social/behavioral sciences requirement in AAS and diploma programs.*

Prerequisites: None

Corequisites: None

GEO 130 General Physical GeographyTBA Day
TBA Evening**3 0 3**

This course introduces both the basic physical components that help shape the earth and the study of minerals, rocks, and evolution of landforms. Emphasis is placed on the geographic grid, cartography, weather, climate, mineral composition, fluvial processes, and erosion and deposition. Upon completion, students should be able to identify these components and processes and explain how they interact. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Prerequisites: None

Corequisites: None

GERMAN**GER 111 Elementary German I**TBA Day
TBA Evening**3 0 3**

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 core requirement in humanities/fine arts; however, this course does not meet the SACS humanities/fine arts requirement in A.A.S. or diploma programs that require only one humanities/fine arts course.*

Prerequisites: None

Corequisites: None

GER 112 Elementary German IITBA Day
TBA Evening**3 0 3**

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 core requirement in humanities/fine arts; however, this course does not meet the SACS humanities/fine arts requirement in A.A.S. or diploma programs that require only one humanities/fine arts course.*

Prerequisites: GER 111

Corequisites: None

HEALTH

HEA 110 Personal Health/Wellness

On Demand Day **3 0 3**
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

HISTORY

HIS 111 World Civilizations I

On Demand Day **3 0 3**
On Demand Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

HIS 112 World Civilizations II

On Demand Day **3 0 3**
On Demand Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score or ENG 111 (Local)

Corequisites: None

HIS 121 Western Civilization I

F, SU Day **3 0 3**
On Demand Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Telecourse

HIS 122 Western Civilization II**S Day 3 0 3**
On Demand Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Telecourse

HIS 131 American History I**F Day 3 0 3**
On Demand Evening

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. Certain sections of this course may be Writing Intensive. Please consult individual semester schedules for Writing Intensive sections. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Telecourse

HIS 132 American History II**S Day 3 0 3**
On Demand Evening

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. Certain sections of this course may be Writing Intensive. Please consult individual semester schedules for Writing Intensive sections. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Telecourse

HIS 163 The World Since 1945**On Demand Day 3 0 3**
On Demand Evening

This course surveys world developments since the end of World War II. Topics include the Cold War, nationalism, colonialism, the Third World, the arms race, and global capitalism and regionalism. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the world since 1945. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

HIS 226 The Civil WarTBA Day
No Evening**3 0 3**

This course examines the social, political, economic, and ideological forces that led to the Civil War and Reconstruction. Topics include regional conflicts and sectionalism, dissolution of the Union, military campaigns, and the War's socioeconomic impact, aftermath, and consequences. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the United States during the era of the Civil War. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

HIS 236 North Carolina HistorySU Day
On Demand Evening**3 0 3**

This course is a study of geographical, political, economic, and social conditions existing in North Carolina from America's discovery to the present. Topics include native and immigrant backgrounds; colonial, antebellum, and Reconstruction periods; party politics; race relations; and the transition from an agrarian to an industrial economy. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in North Carolina. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: RED 090 or appropriate placement test score Local)

Corequisites: None

HORTICULTURE**HOR 134 Greenhouse Operations**S Day
No Evening**2 2 3**

This course covers the principles and procedures involved in the operation and maintenance of greenhouse facilities. Emphasis is placed on the operation of greenhouse systems, including the environmental control, record keeping, scheduling, and production practices. Upon completion, students should be able to demonstrate the ability to operate greenhouse systems and facilities to produce greenhouse crops.

Prerequisites: None

Corequisites: None

HOR 168 Plant PropagationF Day
TBA Evening**2 2 3**

This course is a study of sexual and asexual reproduction of plants. Emphasis is placed on seed propagation, grafting, stem and root propagation, micro-propagation, and other propagation techniques. Upon completion, students should be able to successfully propagate ornamental plants.

Prerequisites: None

Corequisites: None

HUMANITIES

HUM 110 Technology and Society

F, S Day **3 0 3**
On Demand Evening

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 core requirement in humanities/fine arts.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

HUM 115 Critical Thinking

On Demand Day **3 0 3**
On Demand Evening

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 for general education core requirement in humanities/fine arts. This course may meet the SACS humanities requirement for AAS degree programs.*

Prerequisites: ENG 095 or RED 090 and ENG 090

Corequisites: None

HUM 122 Southern Culture

On Demand Day **3 0 3**
On Demand Evening

This course explores the major qualities that make the South a distinct region. Topics include music, politics, literature, art, religion, race relations, and the role of social class in historical and contemporary contexts. Upon completion, students should be able to identify the characteristics that distinguish Southern culture. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Prerequisites: None

Corequisites: None

HUM 130 Myth in Human Culture

On Demand Day **3 0 3**
On Demand Evening

This course provides an in-depth study of myths and legends. Topics include the varied sources of myths and their influence on the individual and society within diverse cultural contexts. Upon completion, students should be able to demonstrate a general familiarity with myths and a broad-based understanding of the influence of myths and legends on modern culture. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Prerequisites: None

Corequisites: None

HUM 160 Introduction to FilmF,S Day **2 2 3**
No Evening

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 core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: None

HUM 161 Advanced Film StudiesOn Demand Day **2 2 3**
On Demand Evening

This course provides an advanced study of film art and production, building on skills learned in HUM 160. Topics include film production techniques, film genres, examination of master directors' styles, and the relation of film to culture. Upon completion, students should be able to recognize and critically analyze advanced elements of film production. *This course has been approved to satisfy the Comprehensive Articulation Agreement core requirement in humanities/fine arts.*

Prerequisites: HUM 160

Corequisites: None

HUM 211 Humanities IF,S,SU Day **3 0 3**
On Demand Evening

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from ancient through early modern times. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Prerequisites: ENG 111

Corequisites: None

HUM 212 Humanities IIS Day **3 0 3**
On Demand Evening

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from early modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Prerequisites: ENG 111

Corequisites: None

INTERNATIONAL BUSINESS

INT 110 International Business TBA Day **3 0 3**
TBA Evening

This course provides an overview of the environment, concepts, and basic differences involved in international business. Topics include forms of foreign involvement, international trade theory, governmental influences on trade and strategies, international organizations, multi-national corporations, personnel management, and international marketing. Upon completion, students should be able to describe the foundation of international business.

Prerequisites: None

Corequisites: None

Distance Education: Internet

INDUSTRIAL SCIENCE

ISC 112 Industrial Safety F Day **2 0 2**
F Evening

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. A fundamental study of accident costs and causes, safety records, accident investigation, development of safeguards, job safety analysis, facility inspection, and safety communication will be covered.

Prerequisites: None

Corequisites: None

Distance Education: Internet

ISC 121 Environmental Health & Safety Internet Only **3 0 3**
On Demand

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.

Prerequisites: None

Corequisites: None

Distance Education: Internet

ISC 132 Manufacturing Quality Control F On Demand Day **2 3 3**
F On Demand Evening

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.

Prerequisites: None

Corequisites: None

ISC 136 Productivity Analysis IS On Demand Day **2 3 3**
S On Demand Evening

This course covers methods of measuring, analyzing, and improving productivity. Topics include methods analysis, standardized practices, process analysis, and human factors. Upon completion, students should be able to apply productivity improvement techniques.

Prerequisites: None

Corequisites: None

ISC 214 Job Analysis/Wages & SalarySU On Demand Day **2 3 3**
SU On Demand Evening

This course covers job analysis and evaluation as a basis for determining equitable wages and salaries. Topics include selection and definition of job factors, relative values of factors, preparation of job specifications and descriptions, and determination of wage/salary structure. Upon completion, students should be able to prepare job specifications and descriptions, evaluate jobs by four commonly accepted methods, and calculate costs of wage curves.

Prerequisites: None

Corequisites: None

ISC 225 Facility LayoutTBA Internet Only **3 2 4**
TBA On Demand

This course provides a practical study of facility planning with emphasis on a structured approach to solving layout problems. Emphasis is placed on investigating and designing an effective facility layout. Upon completion, students should be able to design a basic work area, indicating effective use of allowable resources.

Prerequisites: None

Corequisites: None

Distance Education: Internet

ISC 243 Productivity & Operational Mgmt. IF On Demand Day **2 3 3**
F On Demand Evening

This course introduces concepts used to analyze and solve productivity and operational problems. Topics include operations strategy, forecasting, resource allocation, and materials management. Upon completion, students should be able to recognize, analyze, and solve a variety of productivity and operational problems.

Prerequisites: None

Corequisites: None

ISC 255 Engineering EconomyS Day **2 2 3**
S Evening

This course covers the process of economic evaluation of manufacturing industrial alternatives such as equipment selection, replacement studies, and cost reduction proposals. Topics include discounted cash flows, time value of money, income tax considerations, internal rates of return, and comparison of alternatives using computer programs. Upon completion, students should be able to analyze complex manufacturing alternatives based on engineering economy principles.

Prerequisites: None

Corequisites: None

JOURNALISM

JOU 110 Introduction to Journalism

On Demand Day **3 0 3**

On Demand Evening

This course presents a study of journalistic news, features, and sports writing. Emphasis is placed on basic news writing techniques and on related legal and ethical issues. Upon completion, students should be able to gather, write, and edit news, features, and sports articles. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: ENG 111 (Local)

Corequisites: None

MACHINING

MAC 111 Machining Technology I

F Day **2 12 6**

F Evening

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments. Upon completion, students should be able to safely perform the basic operations of measuring, layout, drilling, sawing, turning, and milling.

Prerequisites: None

Corequisites: BPR 111 and MAC 114 (Local)

MAC 112 Machining Technology II

S Day **2 12 6**

S Evening

This course provides additional instruction and practice in the use of precision measuring tools, lathes, milling machines, and grinders. Emphasis is placed on setup and operation of machine tools, including the selection and use of work holding devices, speeds, feeds, cutting tools, and coolants. Upon completion, students should be able to perform basic procedures on precision grinders and advanced operations of measuring, layout, drilling, sawing, turning, and milling.

Prerequisites: MAC 111

Corequisites: None

MAC 113 Machining Technology III

SU Day **2 12 6**

SU Evening

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.

Prerequisites: MAC 112

Corequisites: None

MAC 114 Introduction to Metrology

TBA Day **2 0 2**

TBA Evening

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.

Prerequisites: None

Corequisites: None

MAC 121 Introduction to CNCF Day 2 0 2
F Evening

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.

Prerequisites: None

Corequisites: None

MAC 122 CNC TurningS Day 1 3 2
S Evening

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.

Prerequisites: MAC 121 and MAC 111 or MEC 111 (Local)

Corequisites: MAC 121 (Local)

MAC 124 CNC MillingSU Day 1 3 2
SU Evening

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.

Prerequisites: MAC 121 and MAC 111 or MEC 111 (Local)

Corequisites: None

MAC 151 Machining CalculationsF Day 1 2 2
F Evening

This course introduces basic calculations as they relate to machining occupations. Emphasis is placed on basic calculations and their applications in the machine shop. Upon completion, students should be able to perform basic shop calculations.

Prerequisites: None

Corequisites: None

MAC 152 Advanced Machining CalculationsS Day 1 2 2
S Evening

This course combines mathematical functions with practical machine shop applications and problems. Emphasis is placed on gear ratios, lead screws, indexing problems, and their applications in the machine shop. Upon completion, students should be able to calculate solutions to machining problems.

Prerequisites: MAC 151 (Local)

Corequisites: None

MATHEMATICS

MAT 050 Basic Math Skills

F,S,SU Day **3 2 4**
F,S,SU Evening

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. *This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: None

Corequisites: None

MAT 060 Essential Mathematics

F,S,SU Day **3 2 4**
F,S,SU Evening

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. *This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: MAT 050 or appropriate placement test score

Corequisites: None

MAT 070 Introductory Algebra

F,S,SU Day **3 2 4**
F,S,SU Evening

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. A graphing calculator is required of all students enrolled in this course. *This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: MAT 060 or appropriate placement test score

Corequisites: RED 080 or ENG 085 or appropriate placement test score

MAT 080 Intermediate AlgebraF,S,SU Day **3 2 4**
F,S,SU Evening

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. A graphing calculator is required of all students enrolled in this course. *This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.*

Prerequisites: MAT 070 or appropriate placement test score

Corequisites: RED 080 or ENG 085

MAT 115 Mathematical ModelsF,S,SU Day **2 2 3**
On Demand Evening

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. A graphing calculator is required of all students enrolled in this course.

Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121,

MAT 161, MAT 171, or MAT 175 or appropriate placement test score

Corequisites: None

MAT 121 Algebra/Trigonometry IOn Demand Day **2 2 3**
On Demand Evening

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 simplification, evaluation, and solving of algebraic and radical functions; complex numbers; right triangle trigonometry; systems of equations; and the use of technology. Upon completion, students should be able to demonstrate an understanding of the use of mathematics and technology to solve problems and analyze and communicate results. A graphing calculator is required of all students enrolled in this course.

Prerequisites: MAT 070, MAT 080, MAT 090, or MAT 095 or appropriate placement test score

Corequisites: None

MAT 122 Algebra/Trigonometry IIF,S Day **2 2 3**
On Demand Evening

This course extends the concepts covered in MAT 121 to include additional topics in algebra, function analysis, and trigonometry. Topics include exponential and logarithmic functions, translation and scaling of functions, Sine Law, Cosine Law, vectors, and statistics. Upon completion, students should be able to demonstrate an understanding of the use of technology to solve problems and to analyze and communicate results. A graphing calculator is required of all students enrolled in this course.

Prerequisites: MAT 121, MAT 161, MAT 171 or MAT 175

Corequisites: None

MAT 140 Survey of Mathematics

F,S,SU Day **3 0 3**
 F,S,SU Evening

This course provides an introduction in a non-technical setting to selected topics in mathematics. Topics may include, but are not limited to, sets, logic, probability, statistics, matrices, mathematical systems, geometry, topology, mathematics of finance, and modeling. Upon completion, students should be able to understand a variety of mathematical applications, think logically, and be able to work collaboratively and independently. A graphing calculator is required of all students enrolled in this course. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics; however, it may not meet the math requirement for many majors. Students should check with the university of their choice to make sure that they complete the appropriate math course. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121,
 MAT 161, MAT 171 or MAT 175 or appropriate placement test score

Corequisites: None

MAT 151 Statistics I

S,SU Day **3 0 3**
 S,SU Evening

This course provides a project-based approach to the study of basic probability, descriptive and inferential statistics, and decision making. Emphasis is placed on measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, quality control, population parameter estimation, and hypothesis testing. Upon completion, students should be able to describe important characteristics of a set of data and draw inferences about a population from sample data. A graphing calculator is required of all students enrolled in this course. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics (Quantitative Option). This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161,
 MAT 171 or MAT 175 or appropriate placement test score

Corequisites: MAT 151A (Local)

MAT 151A Statistics I Lab

S Day **0 2 1**
 S Evening

This course is a laboratory for MAT 151. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161,
 MAT 171 or MAT 175 or appropriate placement test score

Corequisites: MAT 151

MAT 161 College AlgebraF,S,SU Day **3 0 3**
F,S,SU Evening

This course provides an integrated technological approach to algebraic topics used in problem solving. Emphasis is placed on applications involving equations and inequalities; polynomial, rational, exponential and logarithmic functions; and graphing and data analysis/modeling. Upon completion, students should be able to choose an appropriate model to fit a data set and use the model for analysis and prediction. A graphing calculator is required of all students enrolled in this course. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics for the Associate in Arts degree. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 080 or MAT 090 or MAT 095 or appropriate placement test score
Corequisites: None

MAT 175 PrecalculusF,S,SU Day **4 0 4**
On Demand Evening

This course provides an intense study of the topics which are fundamental to the study of calculus. Emphasis is placed on functions and their graphs with special attention to polynomial, rational, exponential, logarithmic and trigonometric functions, and analytic trigonometry. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. A graphing calculator is required of all students enrolled in this course. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 080 or appropriate placement test score (Local)
Corequisites: None

MAT 263 Brief CalculusOn Demand Day **3 0 3**
On Demand Evening

This course introduces concepts of differentiation and integration and their applications to solving problems. The course is designed for students needing one semester of calculus. Topics include functions, graphing, differentiation, and integration with emphasis on applications drawn from business, economics, 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. A graphing calculator is required for this course. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 161 or MAT 171 or MAT 175
Corequisites: None

MAT 271 Calculus ITBA Day **3 2 4**
TBA Evening

This course covers in depth the differential calculus portion of a three-course calculus sequence. Topics include limits, continuity, derivatives, and integrals of algebraic and transcendental functions of one variable with applications. Upon completion, students should be able to apply differentiation and integration techniques to algebraic and transcendental functions. A graphing calculator is required of all students enrolled in this course. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

Prerequisites: MAT 172 or MAT 175
Corequisites: None

MAT 272 Calculus II

TBA Day **3 2 4**
TBA Evening

This course provides a rigorous treatment of integration and is the second calculus course in a three-course sequence. Topics include 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 use integration and approximation techniques to solve application problems. A graphing calculator is required of all students enrolled in this course. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

Prerequisites: MAT 271

Corequisites: None

MAT 273 Calculus III

On Demand Day **3 2 4**
On Demand Evening

This course covers the calculus of several variables and is the third calculus course in a three-course sequence. Topics include functions of several variables, partial derivatives, multiple integrals, solid analytical geometry, vector-valued functions, and line and surface integrals. Upon completion, students should be able to solve problems involving vectors and functions of several variables. A graphing calculator is required of all students enrolled in this course. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

Prerequisites: MAT 272

Corequisites: None

MECHANICAL**MEC 111 Machine Processes I**

F Day **1 4 3**
TBA Evening

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.

Prerequisites: None

Corequisites: None

MEC 142 Physical Metallurgy

S Day **1 2 2**
S On Demand Evening

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.

Prerequisites: None

Corequisites: None

MEC 242 Value/Supply Chain Management

S On Demand Day **3 0 3**
S On Demand Evening

This course covers the design and operation of supply/value chains in use by organizations. Topics include supply chain strategies and management, lean logistics, quality within the supply chain, resource planning and forecasting, and information technology use within value chains. Upon completion, students should be able to demonstrate an understanding of supply chain management and describe value chain processes.

Prerequisites: None

Corequisites: None

MEC 251 StaticsS Day **2 2 3**
On Demand Evening

This course covers the concepts and principles of statics. Topics include systems of forces and moments on structures in two- and three-dimensions in equilibrium. Upon completion, students should be able to analyze forces and moments on structures.

Prerequisites: PHY 131 or PHY 151 (Local)

Corequisites: None

MEC 275 Engineering MechanismsF Day **2 2 3**
On Demand Evening

This course covers plane motion and devices used to generate plane motion. Topics include analysis of displacement, velocity, acceleration, gears, cams, and other mechanical systems. Upon completion, students should be able to graphically and mathematically analyze a plane motion system.

Prerequisites: DFT 151 and PHY 131 or PHY 151

Corequisites: None

MARKETING AND RETAILING**MKT 120 Principles of Marketing**F,S Day **3 0 3**
TBA Evening

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.

Prerequisites: None

Corequisites: None

Distance Education: Internet, Telecourse

MKT 122 Visual MerchandisingS Day **3 0 3**
TBA Evening

This course introduces basic layout design and commercial display in retail and service organizations. Topics include an analysis of display as a visual merchandising medium and an examination of the principles and applications of display and design. Upon completion, students should be able to plan, build, and evaluate designs and displays. *This course is a unique concentration requirement of the Marketing and Retailing concentration in the Business Administration program.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

MKT 123 Fundamentals of SellingF,S Day **3 0 3**
TBA Evening

This course is designed to emphasize the necessity of selling skills in a modern business environment. Emphasis is placed on sales techniques involved in various types of selling situations. Upon completion, students should be able to demonstrate an understanding of the techniques covered.

Prerequisites: None

Corequisites: None

Distance Education: Internet, Telecourse

MKT 125 Buying and MerchandisingOn Demand Day **3 0 3**
TBA Evening

This course includes an analysis of the organization for buying-what, when and how to buy-and the principles of effective inventory and stock control. Topics include organization for buying, analysis of buyers' responsibilities, pricing, inventory control, planning, cost effectiveness, and vendor relationships. Upon completion, students should be able to demonstrate an understanding of the concepts covered through application.

Prerequisites: None

Corequisites: None

MKT 220 Advertising and Sales PromotionF,S Day **3 0 3**
TBA Evening

This course covers the elements of advertising and sales promotion in the business environment. Topics include advertising and sales promotion appeals, selection of media, use of advertising and sales promotion as a marketing tool, and means of testing effectiveness. Upon completion, students should be able to demonstrate an understanding of the concepts covered through application.

Prerequisites: None

Corequisites: None

Distance Education: Internet

MKT 221 Consumer BehaviorTBA Day **3 0 3**
TBA Evening

This course is designed to describe consumer behavior as applied to the exchange processes involved in acquiring, consuming, and disposing of goods and services. Topics include an analysis of basic and environmental determinants of consumer behavior with emphasis on the decision-making process. Upon completion, students should be able to analyze concepts related to the study of the individual consumer.

Prerequisites: None

Corequisites: None

Distance Education: Internet, Hybrid

MKT 225 Marketing ResearchS Day **3 0 3**
TBA Evening

This course provides information for decision making by providing guidance in developing, analyzing, and using data. Emphasis is placed on marketing research as a tool in decision making. Upon completion, students should be able to design and conduct a marketing research project and interpret the results. *This course is a unique concentration requirement of the Marketing and Retailing concentration in the Business Administration program.*

Prerequisites: MKT 120

Corequisites: None

Distance Education: Internet

MKT 226 Retail ApplicationsS Day **3 0 3**
TBA Evening

This course is designed to develop occupational competence through participation in case studies, group work, and simulations. Emphasis is placed on all aspects of store ownership and operation, including securing financial backing and a sufficient market share. Upon completion, students should be able to demonstrate an understanding of concepts covered through application. *This course is a unique concentration requirement of the Marketing and Retailing concentration in the Business Administration program.*

Prerequisites: None

Corequisites: None

Distance Education: Internet, Hybrid

MOTORSPORTS MANAGEMENT

MSM 110 Intro. to Motorsports Mgmt. F Day **3 0 3**
F Evening

This course provides a survey of the motorsports industry. Topics include history and scope of motorsports, sanctioning bodies, types and characteristics of vehicles, related businesses, job opportunities, and economics of the industry. Upon completion, students should be able to demonstrate a general knowledge of the motorsports industry and evaluate career choices and direction.

Prerequisites: None

Corequisites: None

Distance Education: Internet

MSM 112 Engine/Drivetrain Fundamentals F Day **1 2 2**
F Evening

This course introduces the principles of internal combustion engines and drivetrains. Topics include types of engines used in motorsports, basic physics of engine operation, terminology related to engines/drivetrains, tools/equipment, and functions of components and accessories. Upon completion, students should be able to identify basic parts of engines/drivetrains, identify shop tools/equipment, and explain how power is generated, transmitted, and controlled.

Prerequisites: None

Corequisites: None

Distance Education: Internet

MSM 210 Motorsports Marketing F Day **3 0 3**
F Evening

This course introduces principles and problems of marketing goods and services especially related to the motorsports industry. Topics include promotion, placement, and pricing strategies for motorsports products and services; importance/significance of media on product image; and the human relations element in marketing. Upon completion, students should be able to develop a marketing and media plan for a motorsports product or service.

Prerequisites: None

Corequisites: None

Distance Education: Internet

MSM 212 Chassis/Handling Fundamentals F Day **2 2 3**
F Evening

This course introduces chassis design/handling features for super speedways, short tracks, and road courses. Topics include spring rates, caster/camber settings, aerodynamics, tire construction, tire pressure, stagger, corner and cross weights, chassis flex, steering geometry, and effects of track design on chassis handling and tire wear. Upon completion, students should be able to demonstrate a basic understanding of chassis design and the critical factors involved in chassis setups.

Prerequisites: None

Corequisites: None

MSM 214 Fabrication Fundamentals

S Day 1 2 2
S Evening

This course introduces the basic elements of race vehicle fabrication. Topics include chassis design (driver safety, “crush” zones, energy absorption, flex); selection of materials, material forming, and fundamentals of mig, tig, and arc welding. Upon completion, students should be able to demonstrate basic knowledge of fabrication and be able to perform elementary fabrication procedures.

Prerequisites: None

Corequisites: None

MSM 216 Organization Mobility

S Day 2 0 2
S Evening

This course covers the processes and procedures involved in moving complex operations from one location to another in a short time span. Topics include budgeting/coordination of transport/housing/subsistence of personnel; transport of vehicles/equipment or products (including adherence to DOT regulations); facility acquisition; and cost accounting. Upon completion, students should be able to plan and execute a mock both-way move of a complex operation.

Prerequisites: None

Corequisites: None

Distance Education: Internet

MSM 218 Safety/Environment

S Day 2 0 2
S Evening

This course covers safety and environment information related to motorsports management. Topics include local, state, and federal regulations as applied to workplace safety, handling/disposal of certain materials, safe transport of products/vehicles, and processing of required paperwork. Upon completion, students should be able to identify the source and describe general regulations pertaining to safety/environment related to motorsports.

Prerequisites: None

Corequisites: None

MSM 220 Advanced Chassis Analysis

TBA Day 1 2 2
TBA Evening

This course introduces students to the principles of static and dynamic chassis calculations. Topics include basic understanding of the building and testing of shocks, basic applications of dynamic weight transfer, and use of software programs for chassis setups. Upon completion, students should be able to explain the effect and/or reaction of certain suspension and chassis changes using advanced technology.

Prerequisites: MSM 212

Corequisites: None

MSM 285 Motorsports Capstone Project

On Demand Day 1 3 2
On Demand Evening

This course provides a capstone experience for the Motorsports Management Technology student. Topics include planning, preparing, and developing a specific motorsports simulated project, including all aspects related to the management of the project. Upon completion, students should be able to document and defend a project, such as a new team startup, major event management, or major sales promotion.

Perequisites: MSM 110 and BUS 137

Corequisites: None

MUSIC

MUS 110 Music Appreciation

F,S Day **3 0 3**
F,S Evening

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 core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: None

MUS 113 American Music

On Demand Day **3 0 3**
On Demand Evening

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 core requirement in humanities/fine arts.*

Prerequisites: None

Corequisites: None

MUS 131 Chorus I

On Demand Day **0 2 1**
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

NETWORKING TECHNOLOGY

NET 110 Networking Concepts

S Day **2 2 3**
S Evening

This course introduces students to the networking field. Topics include network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

Prerequisites: CIS 110 (Local)

Corequisites: None

Distance Education: Internet, Hybrid

NET 125 Networking BasicsF Day
F Evening**1 4 3**

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.

Prerequisites: None

Corequisites: None

NET 126 Routing BasicsF Day
F Evening**1 4 3**

This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs.

Prerequisites: NET 125

Corequisites: None

NET 175 Wireless TechnologySU Day
On Demand Evening**2 2 3**

This course introduces the student to wireless technology and interoperability with different communication protocols. Topics include Wireless Application Protocol (WAP), Wireless Mark-up language (WML), link manager, service discovery protocol, transport layer and frequency band. Upon completion, students should be able to discuss in written and oral form protocols and procedures required for different wireless applications.

Prerequisites: NET 126 (Local) and NET 110 or NET 125

Corequisites: None

Distance Education: Hybrid

NET 225 Routing & Switching IS Day
S Evening**1 4 3**

This course focuses on advanced IP addressing techniques, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, VLANs, STP, and VTP. Emphasis will be placed on application and demonstration of skills acquired in pre-requisite courses. Upon completion, students should be able to perform tasks related to VLSM, routing protocols, switching concepts and configuration, STP, VLANs, and VTP.

Prerequisites: NET 126

Corequisites: None

NET 226 Routing & Switching IIS Day
S Evening**1 4 3**

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, and PPP encapsulation operations on a router. Upon completion, students should be able to provide solutions for network routing problems, identify ISDN protocols, and describe the Spanning Tree protocol.

Prerequisites: NET 225

Corequisites: None

NET 289 Networking Project

S Day **1 4 3**
On Demand Evening

This course provides an opportunity to complete a significant networking project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, documentation, installation, testing, presentation, and training. Upon completion, students should be able to complete a project from the definition phase through implementation.

Prerequisites: None

Corequisites: NET 226

Distance Education: Hybrid

NETWORKING OPERATING SYSTEM**NOS 110 Operating System Concepts**

F,S Day **2 3 3**
F,S Evening

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is place on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, and maintenance, using a variety of operating systems.

Prerequisites: None

Corequisites: None

Distance Education: Internet, Hybrid

NOS 120 Linux/UNIX Single User

F Day **2 2 3**
F Evening

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.

Prerequisites: NOS 110

Corequisites: None

Distance Education: Hybrid

NOS 130 Windows Single User

S Day **2 2 3**
S Evening

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment.

Prerequisites: NOS 110

Corequisites: None

Distance Education: Hybrid

NOS 220 Linux/UNIX Administration IF Day
F Evening**2 2 3**

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.

Prerequisites: NOS 120

Corequisites: None

Distance Education: Hybrid

NOS 230 Windows Administration IS Day
S Evening**2 2 3**

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.

Prerequisites: NOS 130

Corequisites: None

Distance Education: Hybrid

NURSING**NUR 101 Practical Nursing I**F Day
No Evening**7 12 11**

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 the nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. Clinical/laboratory experiences will focus on the development of basic skills, medication administration, and understanding the nursing process in the care of medical/surgical clients. *This is a diploma-level course.*

Prerequisites: Admission to the Practical Nursing program

Corequisites: BIO 163 and PSY 110 (Local)

NUR 102 Practical Nursing IIS Day
No Evening**8 12 12**

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. Clinical experiences will focus on discipline-specific roles in the care of medical and surgical clients. *This is a diploma-level course.*

Prerequisites: NUR 101, BIO 163, and PSY 110 (Local)

Corequisites: ENG 111 (Local)

NUR 103 Practical Nursing IIISU Day
No Evening**6 12 10**

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. Clinical experiences include geriatrics, medical-surgical, obstetrical and a medical-surgical preceptorship experience in a long-term care setting. *This is a diploma-level course.*

Prerequisites: NUR 102 and ENG 111 (Local)

Corequisites: None

NUR 110 Nursing IF Day
No Evening**5 9 8**

This course introduces concepts basic to beginning nursing practice. Emphasis is placed on introducing the nurse's role as provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to demonstrate beginning competence in caring for individuals with common alterations in health. Laboratory/clinical experiences will focus on utilization of the nursing process in caring for clients across the life-span in a variety of settings.

Prerequisites: Admission to the Associate Degree Nursing program

Corequisites: ENG 111, BIO 168 and PSY 150 (Local)

Distance Education: Hybrid

NUR 120 Nursing IIS Day
No Evening**5 9 8**

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is placed on developing the nurse's role as provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to participate in the delivery of nursing care for individuals with common alterations in health. Laboratory/clinical experiences will focus on the care of medical and surgical clients.

Prerequisites: ENG 111, BIO 168 and PSY 150 (Local); NUR 110

Corequisites: BIO 169, PSY 241 and ENG 112 (Local)

Distance Education: Hybrid

NUR 130 Nursing IIISU Day
No Evening**4 9 7**

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is placed on expanding the nurse's role as provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to deliver nursing care to individuals with common alterations in health. Laboratory/clinical experiences will focus on the care of medical, surgical, and obstetrical clients.

Prerequisites: BIO 169, ENG 112 and PSY 241 (Local); NUR 120 (NUR 187 and NUR 189 are prerequisites for ADN Completion Students Only)

Corequisites: COE 110 or COE 111 or take with NUR 210 (Local)

Distance Education: Hybrid

NUR 187 Transition PracticumS Day
No Evening**0 6 2**

This course provides a clinical practice component designed to assist the licensed practical nurse to transition to the role of the associate degree nurse. Emphasis is placed on developing the nurse's role as provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to demonstrate competency in the delivery of nursing care for individuals with common alterations in health. Clinical experiences are designed to support the theoretical and lab course outcomes in NUR 189.

Prerequisites: Completion of admission criteria to program

Corequisites: NUR 189 (Local)

NUR 189 Nursing TransitionS Day
No Evening**1 3 2**

This course is designed to assist the licensed practical nurse in transition to the role of the associate degree nurse. Topics include the role of the registered nurse, nursing process, homeostasis, and validation of selected nursing skills and physical assessment. Upon completion, students should be able to articulate into the ADN program at the level of the generic student.

Prerequisites: Completion of admission criteria to program (ENG 111, BIO 168 and PSY 150) (Local)

Corequisites: BIO 169, PSY 241, ENG 111 and NUR 187 (Local)

Distance Education: Hybrid

NUR 210 Nursing IVF Day
No Evening**5 15 10**

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is placed on using collaboration as a provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to modify nursing care for individuals with common alterations in health. Laboratory/clinical experiences will focus on the care of medical, surgical, and psychiatric clients.

Prerequisites: NUR 130

Corequisites: BIO 275 and COE 110 or COE 111 (Local)

Distance Education: Hybrid

NUR 220 Nursing VS Day
No Evening**4 18 10**

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is placed on the nurse's role as an independent provider and manager of care for a group of individuals and member of a multidisciplinary team. Upon completion, students should be able to provide comprehensive nursing care to a group of individuals with common complex health alterations. Laboratory/clinical experiences include critical care, emergency, rehabilitation, geriatrics, community-based nursing, and a medical-surgical preceptorship experience.

Prerequisites: BIO 275, COE 110 or COE 111 (Local); NUR 210

Corequisites: Humanities elective (Local)

Distance Education: Hybrid

OPERATIONS MANAGEMENT

OMT 226 Facility Security

TBA Day **3 0 3**
TBA Evening

This course provides an in-depth review of management's role in maintaining a secure work environment. Topics include entrance procedures, theft of company-owned materials, parking lot security, security devices, disaster preparedness, and handling bomb scares. Upon completion, students should be able to identify the components of a secure work environment and be able to recommend corrective actions.

Prerequisites: None

Corequisites: None

OMT 240 Customers and Products

TBA Day **3 0 3**
TBA Evening

This course relates to the design, marketing, and service of a product from recognition of need to the end of its life cycle. Topics include marketing and sales, field service, product design and development, and their interrelationships. Upon completion, students should be able to demonstrate an understanding of customers and products and be prepared for the APICS CIRM examination.

Prerequisites: None

Corequisites: None

OMT 241 Logistics

TBA Day **3 0 3**
TBA Evening

This course presents the market-driven activities necessary to plan and procure materials, control manufacturing, and distribute products to customers throughout the supply chain. Topics include production and inventory control, procurement, distribution, and their interrelationships. Upon completion, students should be able to demonstrate an understanding of logistics and be prepared for the APICS CIRM examination.

Prerequisites: None

Corequisites: None

OMT 243 Support Functions

TBA Day **3 0 3**
TBA Evening

This course covers the broader activities an organization undertakes to assist its own internal departments. Topics include Total Quality Management, human resources, finance and accounting, information systems, and their interrelationships. Upon completion, students should be able to demonstrate an understanding of support functions and be prepared for the APICS CIRM examination.

Prerequisites: None

Corequisites: None

OMT 246 Strategic Management of Resources

TBA Day **2 0 2**
TBA Evening

This course includes the planning and design of production systems and the selection of appropriate technology. Emphasis is placed on investigation into computerized production technology and appropriate systems to implement the technology. Upon completion, students should be able to demonstrate an understanding of production systems and technology and be prepared for the APICS CPIM examination.

Prerequisites: None

Corequisites: None

OFFICE SYSTEMS TECHNOLOGY

OST 122 Office Computations

On Demand Day **1 2 2**

On Demand Evening

This course introduces the keypad and the touch method using the electronic calculator. Topics include mathematical functions in business applications. Upon completion, students should be able to use the electronic calculator to solve a wide variety of problems commonly encountered in business.

Prerequisites: None

Corequisites: None

OST 131 Keyboarding

F,S Day **1 2 2**

F,S Evening

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. An acceptable speed is at least 30 wpm with no more than five errors for Office Systems Technology and Medical Office Administration majors and 25 wpm with no more than five errors for all other programs.

Prerequisites: None

Corequisites: None

OST 132 Keyboard Skill Building

F,S Day **1 2 2**

F,S Evening

This course provides accuracy- and speed-building drills. Emphasis is placed on diagnostic tests to identify accuracy and speed deficiencies followed by corrective drills. Upon completion, students should be able to keyboard rhythmically with greater accuracy and speed.

Prerequisites: OST 131 (Local)

Corequisites: None

OST 134 Text Entry & Formatting

F,S Day **2 2 3**

F,S Evening

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.

Prerequisites: OST 131 with a grade of "C" or better (Local)

Corequisites: None

OST 135 Adv. Text Entry & Formatting

F,S Day **3 2 4**

F,S Evening

This course is designed to incorporate computer application skills in the generation of office documents. Emphasis is placed on the production of letters, manuscripts, business forms, tabulation, legal documents, and newsletters. Upon completion, students should be able to make independent decisions regarding planning, style, and method of presentation.

Prerequisites: OST 134

Corequisites: None

OST 136 Word Processing

F,S Day

1 2 2

F,S Evening

This course introduces 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. Students will use the most current Word software package in this course. Student must pass OST 136 with a grade of "C" or better to continue to OST 236. Prerequisites: OST 131 or acceptable keyboarding test score of 30 WAM. (Local)

Corequisites: None

Distance Education: Internet

OST 137 Office Software Applications

F Day

1 2 2

F On Demand Evening

This course introduces the concepts and functions of software that meets the changing needs of the community. Emphasis is placed on the terminology and use of software through a hands-on approach. Upon completion, students should be able to use software in a business environment. Students will use the most current Microsoft Office software package in this course. Student must make a grade of "C" or better to pass this course. Prerequisites: OST 131 or acceptable keyboarding score of 30 WAM(Local)

Corequisites: None

Distance Education: Internet

OST 141 Medical Terminology I-Med. Office

F Day

3 0 3

F On Demand Evening

This course uses a language-structure approach to present the terminology and vocabulary that will be encountered in medical office settings. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in approximately one-half of the systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms. Student MUST make a grade of "C" or better on Mid-term (Dean Vaughn 350 words) to continue in the course and must make a grade of "C" or better on the final exam to go into OST 142.

Prerequisites: None

Corequisites: None

OST 142 Medical Terminology II-Med. Offices

S Day

3 0 3

S On Demand Evening

This course is a continuation of OST 141 and continues the study, using a language-structure approach of medical office terminology and vocabulary. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in the remaining systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms.

Prerequisites: OST 141 (Local)

Corequisites: None

OST 148 Medical Coding, Billing, and Insurance

S Day

3 0 3

On Demand Evening

This course introduces CPT and ICD coding as they apply to medical insurance and billing. Emphasis is placed on accuracy in coding, forms preparation, and posting. Upon completion, students should be able to describe the steps of the total billing cycle and explain the importance of accuracy.

Prerequisites: OST 141 (Local)

Corequisites: None

OST 149 Medical Legal Issues

S Day **3 0 3**
On Demand Evening

This course introduces the complex legal, moral, and ethical issues involved in providing healthcare 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.

Prerequisites: OST 164 (Local)

Corequisites: None

Distance Education: Internet

OST 164 Text Editing Applications

F Day **3 0 3**
On Demand Evening

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.

Prerequisites: None

Corequisites: None

OST 184 Records Management

S, Day **1 2 2**
On Demand Evening

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.

Prerequisites: None

Corequisites: None

OST 223 Machine Transcription I

F,S Day **1 2 2**
F,S Evening

This course covers the use of transcribing machines to produce mailable documents. Emphasis is placed on appropriate formatting, advanced text editing skills, and transcription techniques. Upon completion, students should be able to transcribe documents into mailable copy. Student must make a grade of "C" or better to pass this course.

Prerequisites: OST 134, OST 136, and OST 164

Corequisites: None

OST 224 Machine Transcription II

F,S Day **1 2 2**
F,S Evening

This course provides advanced transcription skills. Emphasis is placed on specialized transcription features. Upon completion, students should be able to transcribe complex business documents into mailable copy with minimal assistance.

Prerequisites: OST 223

Corequisites: None

OST 236 Adv. Word/Information Processing

S Day **2 2 3**
On Demand Evening

This course develops proficiency in the utilization of advanced word/information processing functions. Topics include tables, graphics, macros, sorting, document assembly, merging, and newspaper and brochure columns. Upon completion, students should be able to produce a variety of complex business documents. Students will use the most current Word software package in this course.

Prerequisites: OST 135 or OST 136

Corequisites: None

Distance Education: Internet

OST 241 Medical Office Transcription I F,S Day 1 2 2
On Demand Evening

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. Students will use the most current Word software package in this course. Student must make a grade of "C" or better to pass this course.

Prerequisites: OST 164 (Local); MED 121 or OST 141

Corequisites: OST 136 (Local)

OST 242 Medical Office Transcription II F,S Day 1 2 2
On Demand Evening

This course continues building machine transcription techniques as applied to medical documents. Emphasis is placed on accurate transcription, proofreading, and use of reference materials as well as continued proofreading/editing skills and vocabulary building. Upon completion, students should be able to perform competently in preparing accurate and usable transcripts of voice recordings in the covered specialties.

Prerequisites: OST 241

Corequisites: None

OST 243 Medical Office Simulation S Day 2 2 3
On Demand Evening

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. Students will use the most current Word software package in this course. Student must make a grade of "C" or better to pass this course.

Prerequisites: OST 131, OST 142, OST 241 (Local), and OST 148

Corequisites: None

OST 244 Medical Document Production TBA Day 1 2 2
TBA Evening

This course provides production-level skill development in processing medical documents. Emphasis is placed on producing mailable documents through the use of medical-related materials. Upon completion, students should be able to perform competently in preparing accurate, correctly formatted, and usable documents.

Prerequisites: OST 134; and OST 142 and OST 241 (Local)

Corequisites: None

OST 247 CPT Coding in the Med. Office F Day 1 2 2
On Demand Evening

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.

Prerequisites: MED 122 or OST 142

Corequisites: None

OST 284 Emerging Technologies

TBA Day **1 2 2**
 TBA Evening

This course provides opportunities to explore emerging technologies. Emphasis is placed on identifying, researching, and presenting current technological topics for class consideration and discussion. Upon completion, students should be able to understand the importance of keeping abreast of technological changes that affect the office professional.

Prerequisites: None

Corequisites: None

OST 286 Professional Development

F Day **3 0 3**
 On Demand Evening

This course covers the personal competencies and qualities needed to project a professional image in the office. Topics include interpersonal skills, health lifestyles, appearance, attitude, personal and professional growth, multicultural awareness, and professional etiquette. Upon completion, students should be able to demonstrate these attributes in the classroom, office, and society. Students will use the most current Word software package in this course. Student must make a grade of "C" or better to pass this course.

Prerequisites: None

Corequisites: None

Distance Education: Internet

OST 289 Office Systems Management

S Day **2 2 3**
 On Demand Evening

This course provides a capstone course for the office professional. Topics include administrative office procedures, imaging, communication techniques, ergonomics, and equipment utilization. Upon completion, students should be able to function proficiently in the changing office environment.

Prerequisites: OST 164 and either OST 134 or OST 136

Corequisites: None

Distance Education: Internet

PHYSICAL EDUCATION**PED 110 Fit and Well for Life**

On Demand Day **1 2 2**
 On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

PED 111 Physical Fitness IOn Demand Day **0 3 1**
On Demand Evening

This course provides an individualized approach to physical fitness, utilizing the five major components. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness programs. Upon completion, students should be able to set up and implement an individualized physical fitness program. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: None

PED 113 Aerobics IOn Demand Day **0 3 1**
On Demand Evening

This course introduces a program of cardiovascular fitness involving continuous, rhythmic exercise. Emphasis is placed on developing cardiovascular efficiency, strength, and flexibility, and on safety precautions. Upon completion, students should be able to select and implement a rhythmic aerobic exercise program. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

PED 117 Weight Training IOn Demand Day **0 3 1**
On Demand Evening

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 pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

PED 121 Walk, Jog, RunOn Demand Day **0 3 1**
No Evening

This course covers the basic concepts involved in safely and effectively improving cardiovascular fitness. Emphasis is placed on walking, jogging, or running as a means of achieving fitness. Upon completion, students should be able to understand and appreciate the benefits derived from these activities. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

PED 122 Yoga IOn Demand Day **0 2 1**
On Demand Evening

This course introduces the basic discipline of yoga. Topics include proper breathing, relaxation techniques, and correct body positions. Upon completion, students should be able to demonstrate the procedures of yoga. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

PED 128 Golf - Beginning

On Demand Day **0 2 1**
 No Evening

This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment, swings for the short and long game, putting, and the rules and etiquette of golf. Upon completion, students should be able to perform the basic golf shots and demonstrate a knowledge of the rules and etiquette of golf. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

PED 142 Lifetime Sports

On Demand Day **0 2 1**
 On Demand Evening

This course is designed to give an overview of a variety of sports activities. Emphasis is placed on the skills and rules necessary to participate in a variety of lifetime sports. Upon completion, students should be able to demonstrate an awareness of the importance of participating in lifetime sports activities. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

PED 217 Pilates I

On Demand Day **0 2 1**
 On Demand Evening

This course provides an introduction to the pilates method of body conditioning exercise. Topics include instruction in beginning and intermediate pilates exercises using a mat or equipment, history of the pilates method, and relevant anatomy and physiology. Upon completion, students should be able to perform beginning and intermediate exercises, and possess an understanding of the benefits of conditioning the body's core muscles. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

PHILOSOPHY**PHI 210 History of Philosophy**

On Demand Day **3 0 3**
 On Demand Evening

This course introduces fundamental philosophical issues through a historical perspective. Emphasis is placed on such figures as Plato, Aristotle, Lao-Tzu, Confucius, Augustine, Aquinas, Descartes, Locke, Kant, Wollstonecraft, Nietzsche, and Sartre. Upon completion, students should be able to identify and distinguish among the key positions of the philosophers studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Prerequisites: ENG 111

Corequisites: None

Distance Education: Telecourse

PHI 220 Western Philosophy IOn Demand Day **3 0 3**
On Demand Evening

This course covers Western intellectual and philosophic thought from the early Greeks through the medievalists. Emphasis is placed on such figures as the pre-Socratics, Plato, Aristotle, Epicurus, Epictetus, Augustine, Suarez, Anselm, and Aquinas. Upon completion, students should be able to trace the development of leading ideas regarding reality, knowledge, reason, and faith. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Prerequisites: ENG 111

Corequisites: None

PHI 221 Western Philosophy IIOn Demand Day **3 0 3**
On Demand Evening

This course covers Western intellectual and philosophic thought from post-medievalists through recent thinkers. Emphasis is placed on such figures as Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, Kant, Hegel, Marx, Mill, and representatives of pragmatism, logical positivism, and existentialism. Upon completion, students should be able to trace the development of leading ideas concerning knowledge, reality, science, society, and the limits of reason. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Prerequisites: ENG 111

Corequisites: None

PHI 230 Introduction to LogicOn Demand Day **3 0 3**
No Evening

This course introduces basic concepts and techniques for distinguishing between good and bad reasoning. Emphasis is placed on deduction, induction, validity, soundness, syllogisms, truth functions, predicate logic, analogical inference, common fallacies, and scientific methods. Upon completion, students should be able to analyze arguments, distinguish between deductive and inductive arguments, test validity, and appraise inductive reasoning. *This course has been approved to satisfy the Comprehensive Articulation general education core requirement in humanities/fine arts. This course may meet the SACS humanities requirement for AAS degree programs.*

Prerequisites: MAT 070 or acceptable placement test score (Local) and ENG 111

Corequisites: None

PHI 240 Introduction to EthicsOn Demand Day **3 0 3**
On Demand Evening

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on utilitarianism, rule-based ethics, existentialism, relativism versus objectivism, and egoism. Upon completion, students should be able to apply various ethical theories to individual moral issues such as euthanasia, abortion, crime and punishment, and justice. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Prerequisites: ENG 111

Corequisites: None

PHYSICS

PHY 110 Conceptual Physics

S,SU Day **3 0 3**
On Demand Evening

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 general education core requirement in natural sciences/mathematics.*

Prerequisites: None

Corequisites: None

Distance Education: Internet

PHY 110A Conceptual Physics Lab

S,SU Day **0 2 1**
On Demand Evening

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 general education core requirement in natural sciences/mathematics.*

Prerequisites: None

Corequisites: PHY 110

PHY 131 Physics-Mechanics

F,S Day **3 2 4**
No Evening

This algebra/trigonometry-based course introduces fundamental physical concepts as applied to engineering technology fields. Topics include systems of units, problem-solving methods, graphical analysis, vectors, motion, forces, Newton's laws of motion, work, energy, power, momentum, and properties of matter. Upon completion, students should be able to apply the principles studied to applications in engineering technology fields.

Prerequisites: MAT 121, MAT 161, MAT 171, or MAT 175

Corequisites: None

PHY 132 Physics-Electricity & Magnetism

F,S Day **3 2 4**
No Evening

This algebra/trigonometry-based course is a study of fundamental physical concepts as applied to engineering technology fields. Topics include systems of units, problem-solving methods, graphical analysis, waves, electricity, magnetism, circuits, transformers, motors, and generators. Upon completion, students should be able to apply the principles studied to applications in engineering technology fields.

Prerequisites: PHY 131

Corequisites: None

PHY 151 College Physics I

F,S,SU Day **3 2 4**
No Evening

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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 161 or MAT 171 or MAT 175

Corequisites: None

PHY 152 College Physics IIF,S Day
No Evening**3 2 4**

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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: PHY 151

Corequisites: None

PHY 251 General Physics ITBA Day
TBA Evening**3 3 4**

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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 271

Corequisites: MAT 272

PHY 252 General Physics IITBA Day
TBA Evening**3 3 4**

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 core requirement in natural sciences/mathematics. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: MAT 272 and PHY 251

Corequisites: None

POLITICAL SCIENCE**POL 110 Introduction to Political Science**TBA Day
TBA Evening**3 0 3**

This course introduces basic political concepts used by governments and addresses a wide range of political issues. Topics include political theory, ideologies, legitimacy, and sovereignty in democratic and non-democratic systems. Upon completion, students should be able to discuss a variety of issues inherent in all political systems and draw logical conclusions in evaluating these systems. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: None

POL 120 American Government

TBA Day **3 0 3**
TBA Evening

This course is a study of the origins, development, structure, and functions of American national 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 formation. 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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: None

Corequisites: None

Distance Education: Telecourse

POL 130 State & Local Government

On Demand Day **3 0 3**
On Demand Evening

This course includes state and local political institutions and practices in the context of American federalism. Emphasis is placed on procedural and policy differences as well as political issues in state, regional, and local governments of North Carolina. Upon completion, students should be able to identify and discuss various problems associated with intergovernmental politics and their effect on the community and the individual. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: None

Corequisites: None

POL 210 Comparative Government

TBA Day **3 0 3**
TBA Evening

This course provides a cross-national perspective on the government and politics of contemporary nations such as Great Britain, France, Germany, and Russia. Topics include each country's historical uniqueness, key institutions, attitudes and ideologies, patterns of interaction, and current political problems. Upon completion, students should be able to identify and compare various nations' governmental structures, processes, ideologies, and capacity to resolve major problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Prerequisites: None

Corequisites: None

POL 220 International Relations

TBA Day **3 0 3**
TBA Evening

This course provides a study of the effects of ideologies, trade, armaments, and alliances on relations among nation-states. Emphasis is placed on regional and global cooperation and conflict, economic development, trade, non-governmental organizations, and international institutions such as the World Court and UN. Upon completion, students should be able to identify and discuss major international relationships, institutions, and problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Prerequisites: None

Corequisites: None

PSYCHOLOGY

PSY 101 Applied Psychology TBA Day **3 0 3**
TBA Evening

This course introduces the basic principles of psychology as they apply to daily life. Topics include perception, emotions, motivation, adjustment, behavior management, communication, and related topics that promote growth and development on the job and in one's personal life. Upon completion, students should be able to apply the principles learned in this class to everyday living. *This course is intended for diploma programs.*

Prerequisites: None

Corequisites: None

PSY 110 Life Span Development F Day **3 0 3**
TBA Evening

This course provides an introduction to the study of human growth and development. Emphasis is placed on the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span and apply this knowledge to their specific field of study. This course meets the SACS social/behavioral sciences requirement in AAS and diploma programs.

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

PSY 118 Interpersonal Psychology SU Day **3 0 3**
TBA Evening

This course introduces the basic principles of psychology as they relate to personal and professional development. Emphasis is placed on personality traits, communication/leadership styles, effective problem solving, and cultural diversity as they apply to personal and work environments. Upon completion, students should be able to demonstrate an understanding of these principles of psychology as they apply to personal and professional development. This course meets the SACS social/behavioral sciences requirement in AAS and diploma programs.

Prerequisites: None

Corequisites: None

PSY 150 General Psychology F,S,SU Day **3 0 3**
F,S Evening (SU On Demand)

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 course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Telecourse

PSY 211 Psychology of Adjustment

TBA Day **3 0 3**
TBA Evening

This course introduces the study of the adjustment process focusing on contemporary challenges individuals must deal with in everyday life. Topics include theories of behavior, career choices, self-understanding, coping mechanisms, human relationships, intimacy, sociocultural factors influencing healthy personal adjustment, and other related topics. Upon completion, students should be able to demonstrate an awareness of the processes of adjustment. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: PSY 150

Corequisites: None

PSY 231 Forensic Psychology

TBA Day **3 0 3**
TBA Evening

This course introduces students to concepts which unite psychology and the legal system. Topics include defining competency, insanity, involuntary commitment as well as introducing forensic assessment techniques, such as interviewing process, specialized assessments, and collecting collateral information. Upon completion, students should be able to demonstrate knowledge in areas of forensic psychology: risk assessment, criminal competencies, insanity, psychopathology, and mentally disordered offenders. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: PSY 150

Corequisites: None

PSY 237 Social Psychology

TBA Day **3 0 3**
TBA Evening

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 core requirement in social/behavioral sciences.*

Prerequisites: PSY 150 or SOC 210

Corequisites: None

PSY 239 Psychology of Personality

TBA Day **3 0 3**
TBA Evening

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 core requirement in social/behavioral sciences.*

Prerequisites: PSY 150

Corequisites: None

PSY 241 Developmental PsychologyF,S Day
TBA Evening**3 0 3**

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 core requirement in social/behavioral sciences.*

Prerequisites: PSY 150

Corequisites: None

Distance Education: Telecourse

PSY 249 Psychology of AgingTBA Day
TBA Evening**3 0 3**

This course covers the particular needs and behaviors of the maturing adult. Emphasis is placed on psychosocial processes; biological and intellectual aspects of aging; adjustments to retirement, dying, bereavement; and the stereotypes and misconceptions concerning the elderly. Upon completion, students should be able to show an understanding of the psychological factors related to the aging process. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: PSY 150

Corequisites: None

PSY 259 Human SexualityTBA Day
TBA Evening**3 0 3**

This course provides the biological, psychological, and sociocultural aspects of human sexuality and related research. Topics include reproductive biology, sexual and psychosexual development, sexual orientation, contraception, sexually transmitted diseases, sexual disorders, theories of sexuality, and related issues. Upon completion, students should be able to demonstrate an overall knowledge and understanding of human sexuality. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: PSY 150

Corequisites: None

PSY 281 Abnormal PsychologyF, S Day
(SU On Demand)
TBA Evening**3 0 3**

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 core requirement in social/behavioral sciences.*

Prerequisites: PSY 150

Corequisites: None

RADIOGRAPHY

RAD 110 Radiography Intro. & Patient Care F Day 2 3 3
No Evening

This course provides an overview of the radiography profession and student responsibilities. Emphasis is placed on basic principles of patient care, radiation protection, technical factors, and medical terminology. Upon completion, students should be able to demonstrate basic skills in these areas.

Prerequisites: None
Corequisites: RAD 111 and RAD 151

RAD 111 Radiographic Procedures I F Day 3 3 4
No Evening

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the chest, abdomen, extremities, spine, and pelvis. Upon completion, students should be able to demonstrate competence in these areas. Selected studies of the abdomen utilizing contrast media will be introduced.

Prerequisites: None
Corequisites: RAD 110 and RAD 151

RAD 112 Radiographic Procedures II S Day 3 3 4
No Evening

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the skull, bony thorax, and gastrointestinal, biliary, and urinary systems. Upon completion, students should be able to demonstrate competence in these areas.

Prerequisites: RAD 110, RAD 111, and RAD 151
Corequisites: None

RAD 121 Radiographic Imaging I S Day 2 3 3
No Evening

This course covers factors of image quality and methods of exposure control. Topics include density, contrast, recorded detail, distortion, technique charts, manual and automatic exposure control, and tube rating charts. Upon completion, students should be able to demonstrate an understanding of exposure control and the effects of exposure factors on image quality.

Prerequisites: RAD 110, RAD 111, and RAD 151
Corequisites: None

RAD 122 Radiographic Imaging II SU Day 1 3 2
No Evening

This course covers image receptor systems and processing principles. Topics include film, film storage, processing, intensifying screens, grids, and beam limitation. Upon completion, students should be able to demonstrate the principles of selection and usage of imaging accessories to produce quality images.

Prerequisites: RAD 112, RAD 121, and RAD 161
Corequisites: RAD 131 and RAD 171

RAD 131 Radiographic Physics ISU Day
No Evening**1 3 2**

This course introduces the fundamental principles of physics that underlie diagnostic X-ray production and radiography. Topics include electromagnetic waves, electricity and magnetism, electrical energy, and power and circuits as they relate to radiography. Upon completion, students should be able to demonstrate an understanding of basic principles of physics as they relate to the operation of radiographic equipment.

Prerequisites: None

Corequisites: None

RAD 151 RAD Clinical Education IF Day
No Evening**0 6 2**

This course introduces patient management and basic radiographic procedures in the clinical setting. Emphasis is placed on mastering positioning of the chest and extremities, manipulating equipment, and applying principles of ALARA. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

Prerequisites: None

Corequisites: RAD 110 and RAD 111

RAD 161 RAD Clinical Education IIS Day
No Evening**0 15 5**

This course provides additional experience in patient management and in more complex radiographic procedures. Emphasis is placed on mastering positioning of the spine, pelvis, head and neck, and thorax, and adapting procedures to meet patient variations. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

Prerequisites: RAD 110, RAD 111, and RAD 151

Corequisites: RAD 112 and RAD 121

RAD 171 RAD Clinical Education IIISU Day
No Evening**0 12 4**

This course provides experience in patient management specific to fluoroscopic and advanced radiographic procedures. Emphasis is placed on applying appropriate technical factors to all studies and mastering positioning of gastrointestinal and urological studies. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

Prerequisites: RAD 112, RAD 121, and RAD 161

Corequisites: RAD 122 and RAD 131

RAD 211 Radiographic Procedures IIIF Day
No Evening**2 3 3**

This course provides the knowledge and skills necessary to perform standard and specialty radiographic procedures. Emphasis is placed on radiographic specialty procedures, pathology, and advanced imaging. Upon completion, students should be able to demonstrate competence in these areas.

Prerequisites: RAD 122

Corequisites: RAD 231, RAD 241 and RAD 251

RAD 231 Radiographic Physics IIF Day
No Evening**1 3 2**

This course continues the study of physics that underlie diagnostic X-ray production and radiographic and fluoroscopic equipment. Topics include X-ray production, electromagnetic interactions with matter, X-ray devices, and equipment circuitry. Upon completion, students should be able to demonstrate an understanding of the application of physical concepts as related to image production.

Prerequisites: RAD 171 or RAD 131

Corequisites: None

RAD 241 Radiobiology Protection

F Day
No Evening

2 0 2

This course covers the principles of radiation protection and radiobiology. Topics include the effects of ionizing radiation on body tissues, protective measures for limiting exposure to the patient and personnel, and radiation monitoring devices. Upon completion, students should be able to demonstrate an understanding of the effects and uses of radiation in diagnostic radiology.

Prerequisites: RAD 122, RAD 131, and RAD 171

Corequisites: RAD 211, RAD 231 and RAD 251

RAD 245 Radiographic Quality Management

S Day
No Evening

1 3 2

This course provides an overview of imaging concepts and introduces methods of quality assurance. Topics include a systematic approach for image evaluation and analysis of imaging service and quality assurance. Upon completion, students should be able to establish and administer a quality assurance program and conduct a critical review of images.

Prerequisites: RAD 211, RAD 231, RAD 241 and RAD 251

Corequisites: RAD 261

RAD 251 RAD Clinical Education IV

F Day
No Evening

0 21 7

This course provides the opportunity to continue mastering all basic radiographic procedures and to attain experience in advanced areas. Emphasis is placed on equipment operation, pathological recognition, pediatric and geriatric variations, and a further awareness of radiation protection requirements. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

Prerequisites: RAD 122, RAD 131, and RAD 171

Corequisites: RAD 211, RAD 231 and RAD 241

RAD 261 RAD Clinical Education V

S Day
No Evening

0 21 7

This course is designed to enhance expertise in all radiographic procedures, patient management, radiation protection, and image production and evaluation. Emphasis is placed on developing an autonomous approach to the diversity of clinical situations and successfully adapting to those procedures. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

Prerequisites: RAD 251

Corequisites: RAD 245

RAD 271 Radiography Capstone

S Day
No Evening

0 3 1

This course provides an opportunity to exhibit problem-solving skills required for certification. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should be able to demonstrate the knowledge required of any entry-level radiographer.

Prerequisites: RAD 211, RAD 231, RAD 241, RAD 251

Corequisites: RAD 245, RAD 261

READING

RED 080 Introduction to College Reading F,S Day 3 2 4 F,S Evening

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. This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.* Prerequisites: RED 070 or ENG 075 or appropriate placement test score
Corequisites: None

RED 090 Improved College Reading F,S,SU Day 3 2 4 F,S Evening

This course is designed to improve reading and critical thinking skills. Topics include vocabulary enhancement; extracting implied meaning; analyzing the 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. This course is designed to prepare students for college level work and **will not** satisfy credit hours for any degree, diploma or certificate program. This course will not transfer to a four-year institution but will transfer to any of the community colleges within the N.C. Community College System; however, it **will not** satisfy any degree, diploma or certificate requirements at the receiving institution. Credit earned for this course will only satisfy the prerequisites for entry into a curriculum level course.* Prerequisites: RED 080 or ENG 085 or appropriate placement test score
Corequisites: None

RELIGION

REL 110 World Religions On Demand Day 3 0 3 On Demand Evening

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 core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.* Prerequisites: None
Corequisites: None
Distance Education: Internet

REL 211

Introduction to Old Testament

F Day
F Evening

3 0 3

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 core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*
Prerequisites: None
Corequisites: None

REL 212

Introduction to New Testament

S Day
S Evening

3 0 3

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 core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*
Prerequisites: None
Corequisites: None

REL 221

Religion in America

On Demand Day
No Evening

3 0 3

This course is an examination of religious beliefs and practice in the United States. Emphasis is placed on mainstream religious traditions and non-traditional religious movements from the Colonial period to the present. Upon completion, students should be able to recognize and appreciate the diversity of religious traditions in America. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*
Prerequisites: None
Corequisites: None

REAL ESTATE

RLS 112

Real Estate Broker Prelicensing

F,S Day
F,S Evening

5 0 5

This course provides basic instruction in real estate principles and practices. Topics include law, finance, brokerage, closing, valuation, management, taxation, mathematics, construction, land use, property insurance, and NC License Law and Commission Rules. Upon completion, students should be able to demonstrate basic knowledge and skills necessary for real estate sales. Successful completion of this course will enable students to take the North Carolina Real Estate Commission’s licensing examination.
Prerequisites: None
Corequisites: None

RLS 113 Real Estate MathematicsOn Demand Day **2 0 2**
On Demand Evening

This course provides basic instruction in business mathematics applicable to real estate situations. Topics include area computations, percentage of profit/loss, bookkeeping and accounting methods, appreciation and depreciation, financial calculations and interest yields, property valuation, insurance, taxes, and commissions. Upon completion, students should be able to demonstrate proficiency in applied real estate mathematics.

Prerequisites: None

Corequisites: None

RLS 121 Broker RelationshipsF,S,SU Day **2 0 2**
F,S,SU Evening

This course provides postlicensing instruction in broker relationships and responsibilities when working with residential sellers and buyers. Topics include agency relationships and duties, agency contracts and disclosure, and the practical aspects of working with residential buyers and sellers. Upon completion, students should be able to demonstrate knowledge and skills necessary to effectively work with residential buyers/sellers according to law and prevailing practices. Students must have a broker license on provisional status in N.C. or be applying for broker license reinstatement to take this course; students may not take two or more postlicensing courses simultaneously; and students must present their pocket cards at the first class meeting.

Prerequisites: RLS 112 or a North Carolina broker license on provisional status

Corequisites: None

RLS 122 Contracts and ClosingF,S,SU Day **2 0 2**
F,S,SU Evening

This course provides postlicensing instruction in broker responsibilities relating to real estate sales contracts, contract procedures, the Real Estate Settlement Procedures Act and closings. Topics include contract law concepts, residential sales contract preparation and procedures, closing procedures and closing statement preparation. Upon completion, students should be able to handle sales contract negotiations, prepare residential sales contracts, assist sellers/buyers prepare for closing and verify closing statements. Students must have a broker license on provisional status in N.C. or be applying for broker license reinstatement to take this course; students may not take two or more postlicensing courses simultaneously; and students must present their pocket cards at the first class meeting.

Prerequisites: RLS 112 or a North Carolina broker license on provisional status

Corequisites: None

RLS 123 Select Real Estate IssuesF,S,SU Day **2 0 2**
F,S,SU Evening

provides postlicensing instruction in real estate on selected topics of special importance to licensees. Topics include commercial real estate brokerage, residential property management, land use controls, loan fraud, license law, fair housing, establishing a brokerage firm, and manufactured/modular homes. Upon completion, students should be able to demonstrate knowledge of commercial real estate brokerage, residential property management, and the other topics addressed in this course. Students must have a broker license on provisional status in N.C. or be applying for broker license reinstatement to take this course; students may not take two or more postlicensing courses simultaneously; and students must present their pocket cards at the first class meeting.

Prerequisites: RLS 112 or a North Carolina broker license on provisional status

Corequisites: None

INFORMATION SYSTEMS SECURITY

SEC 110 Security Concepts

Internet/Hybrid Only
Seated On Demand

3 0 3

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy.

Prerequisites: None
Corequisites: None
Distance Education: Internet, Hybrid

SEC 150 Secure Communications

Internet/Hybrid Only

2 2 3

This course provides an overview of current technologies used to provide secure transport of information across networks. Topics include data integrity through encryption, Virtual Private Networks, SSL, SSH, and IPSec. Upon completion, students should be able to implement secure data transmission technologies.

Prerequisites: SEC 110 and NET 110 or NET 125
Corequisites: None
Distance Education: Internet, Hybrid

SEC 160 Secure Administration I

SU Day or
SU Evening

2 2 3

This course provides an overview of security administration and fundamentals of designing security architectures. Topics include networking technologies, TCP/IP concepts, protocols, network traffic analysis, monitoring, and security best practices. Upon completion, students should be able to identify normal network traffic using network analysis tools and design basic security defenses.

Prerequisites: SEC 110 and NET 110 or NET 125; NET 226 (Local)
Corequisites: None
Distance Education: Internet

SEC 210 Intrusion Detection

F Day
F Evening

2 2 3

This course introduces the student to intrusion detection methods in use today. Topics include the types of intrusion detection products, traffic analysis, and planning and placement of intrusion detection solutions. Upon completion, students should be able to plan and implement intrusion detection solution for networks and host based systems.

Prerequisites: SEC 160
Corequisites: None
Distance Education: Hybrid

SEC 220 Defense In-Depth

F Day **2 2 3**
F Evening

This course introduces students to the concepts of defense in-depth, a security industry best practice. Topics include firewalls, backup systems, redundant systems, disaster recovery, and incident handling. Upon completion, students should be able to plan effective information security defenses, backup systems, and disaster recovery procedures. *This course is restricted to the Information Systems Security, the Information Systems Security/Operating Systems, and the Information Systems Security/Security Hardware curriculums.*

Prerequisites: None

Corequisites: SEC 160

Distance Education: Hybrid

SEC 289 Security Capstone Project

S Day **1 4 3**
S Evening

This course provides the student the opportunity to put into practice all the skills learned to this point. Emphasis is placed on security policy, process planning, procedure definition, business continuity, and systems security architecture. Upon completion, students should be able to design and implement comprehensive information security architecture from the planning and design phase through implementation. *This course is restricted to the Information Systems Security, the Information Systems Security/Operating Systems, and the Information Systems Security/Security Hardware curriculums.*

Prerequisites: SEC 220

Corequisites: None

Distance Education: Hybrid

SOCIOLOGY**SOC 100 Concepts in Sociology**

TBA Day **3 0 3**
TBA Evening

This course examines the basic concepts of sociology from the perspective of the individual as a member of society. Topics include an understanding of society, culture, collective behavior, community life, social institutions, social change, and the effect of social life on human behavior. Upon completion, students should be able to demonstrate knowledge of the impact of social interaction on institutions, groups, and individuals. *This course is intended for certificate and diploma programs.*

Prerequisites: None

Corequisites: None

SOC 210 Introduction to Sociology

F,S,SU Day **3 0 3**
TBA Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Telecourse

SOC 213 Sociology of the Family

TBA Day **3 0 3**
TBA Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: Internet, Telecourse

SOC 220 Social Problems

TBA Day **3 0 3**
TBA Evening

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 core requirement in social/behavioral sciences. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

SOC 225 Social Diversity

TBA Day **3 0 3**
TBA Evening

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 core requirement in social/behavioral sciences.* Please note that this course is a writing intensive course; see page 287 for a description of writing intensive courses.

Prerequisites: SOC 210 or Instructor Approval (Local)

Corequisites: None

SOC 230 Race and Ethnic Relations

TBA Day **3 0 3**
TBA Evening

This course includes an examination of the various aspects of race and ethnicity and how these lead to different experiences, opportunities, problems, and contributions. Topics include prejudice, discrimination, perceptions, myths, stereotypes, and intergroup relationships. Upon completion, students should be able to identify and analyze relationships among racial and ethnic groups within the larger society. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Prerequisites: RED 090 or appropriate placement score (Local)

Corequisites: None

SOC 234 Sociology of GenderTBA Day **3 0 3**
TBA Evening

This course examines contemporary roles in society with special emphasis on recent changes. Topics include sex role socialization, myths and stereotypes, and gender issues related to family, work, and power. Upon completion, students should be able to analyze modern relationships between men and women. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

SOC 240 Social PsychologyTBA Day **3 0 3**
TBA Evening

This course examines the influence of culture and social groups on individual behavior and personality. Emphasis is placed on the process of socialization, communication, conformity, deviance, interpersonal attraction, intimacy, race and ethnicity, small group experiences, and social movements. Upon completion, students should be able to identify and analyze cultural and social forces that influence the individual in a society. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.* Please note that this course is a writing intensive course; see page 287 for a description of writing intensive courses.

Prerequisites: PSY 150 or SOC 210 or Instructor Approval (Local)

Corequisites: None

Distance Education: Internet

SOC 242 Sociology of DevianceTBA Day **3 0 3**
TBA Evening

This course provides an overview of deviant behavior and the processes involved in its definition, causation, prevention, control, and treatment. Topics include theories of causation, social control, delinquency, victimization, criminality, the criminal justice system, punishment, rehabilitation, and restitution. Upon completion, students should be able to identify and analyze issues surrounding the nature and development of social responses to deviance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: SOC 210 or Instructor Approval (Local)

Corequisites: None

Distance Education: Internet

SOC 250 Sociology of ReligionTBA Day **3 0 3**
TBA Evening

This course examines religion from a sociological perspective as part and product of human society. Topics include the origins, development, and functions of belief systems; religious organizations; conversion; and interactions with politics, the economy, science, and the class system. Upon completion, students should be able to describe and analyze religious systems. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Prerequisites: SOC 210 or Instructor Approval (Local)

Corequisites: None

SPANISH

SPA 111 Elementary Spanish I

F,S Day (SU On Demand)
F Evening (S On Demand)

3 0 3

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 core requirement in humanities/fine arts; however, this course does not meet the SACS humanities/fine arts requirement in A.A.S. or diploma programs that require only one humanities/fine arts course. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: RED 090 or appropriate placement test score (Local)

Corequisites: None

Distance Education: May be offered as Internet or Hybrid

SPA 112 Elementary Spanish II

S Day
S Evening

3 0 3

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 core requirement in humanities/fine arts; however, this course does not meet the SACS humanities/fine arts requirement in A.A.S. or diploma programs that require only one humanities/fine arts course. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: SPA 111

Corequisites: None

Distance Education: May be offered as Internet or Hybrid

SPA 120 Spanish for the Workplace

On Demand Day
On Demand Evening

3 0 3

This course offers applied Spanish for the workplace to facilitate basic communication with people whose native language is Spanish. Emphasis is placed on oral communication and career-specific vocabulary that targets health, business, and/or public service professions. Upon completion, students should be able to communicate at a functional level with native speakers and demonstrate cultural sensitivity.

Prerequisites: None

Corequisites: None

SPA 211 Intermediate Spanish I

F Day or Evening

3 0 3

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 core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: SPA 112

Corequisites: None

SPA 212 Intermediate Spanish IIS Day or Evening **3 0 3**

This course provides a continuation of SPA 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may satisfy a general education requirement for Catawba College.*

Prerequisites: SPA 211

Corequisites: None

SURVEYING**SRV 110 Surveying I**On Demand Day **2 6 4**
On Demand Evening

This course introduces the theory and practice of plane surveying. Topics include measuring distances and angles, differential and profile leveling, compass applications, topography, and mapping. Upon completion, students should be able to use/care for surveying instruments, demonstrate field note techniques, and apply the theory and practice of plane surveying.

Prerequisites: ARC 111 or EGR 115; and MAT 121 or MAT 161 or MAT 171 or MAT 175

Corequisites: None

WEB TECHNOLOGIES**WEB 110 Internet/Web Fundamentals**F Day **2 2 3**
TBA Evening

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, email, listservers, and other related topics. Upon completion, students should be able to deploy a website created with basic markup language, retrieve/decompress files, email, FTP, and utilize other internet tools.

Prerequisites: None

Corequisites: CIS 110 or CIS 111 (Local)

Distance Education: Hybrid

WEB 111 Introduction to Web GraphicsF Day or **2 2 3**
F Evening

This course is the first of two courses covering the creation of web graphics, addressing problems peculiar to WWW display using appropriate software. Topics include web graphics file types, type conversion, RGB color, the browser-safe palette, elementary special effects, image maps, and other related topics. Upon completion, students should be able to create graphics such as banners buttons, backgrounds, and other graphics for Web pages.

Prerequisites: None

Corequisites: None

Distance Education: Hybrid

WEB 115 Web Markup and Scripting

S Day or
S Evening

2 2 3

This course introduces Worldwide Web Consortium (W3C) standard client-side Internet programming using industry-established practices. Topics include JavaScript, markup elements, stylesheets, validation, accessibility, standards, and browsers. Upon completion, students should be able to develop hand-coded web pages using current markup standards.

Prerequisites: WEB 110 (Local)
Corequisites: None
Distance Education: Internet, Hybrid

WEB 119 Web Tech. Program Orientation

F Day or
F Evening

1 2 2

This course provides an opportunity for students to develop the knowledge and skills required to succeed in the Web Technologies program. Emphasis is placed on introducing students to the tools and resources available for Web Technologies. Upon completion, students should be able to use the tools, resources, and services available.

Prerequisites: None
Corequisites: None
Distance Education: Hybrid

WEB 120 Introduction to Internet Multimedia

F Day or
F Evening

2 2 3

This is the first of two courses covering the creation of Internet Multimedia. Topics include Internet multimedia file types, file type conversion, acquisition of digital audio/video, streaming audio/video and graphics animation plug-in programs and other related topics. Upon completion, students should be able to create Internet multimedia presentations utilizing a variety of methods and applications.

Prerequisites: None
Corequisites: None
Distance Education: Hybrid

WEB 140 Web Development Tools

S Day or
S Evening

2 2 3

This course provides an introduction to web development software suites. Topics include the creation of web sites and applets using web development software. Upon completion, students should be able to create entire web sites and supporting applets.

Prerequisites: WEB 115 (Local)
Corequisites: None
Distance Education: Internet

WEB 210 Web Design

Internet

2 2 3

This course introduces intermediate to advanced web design techniques. Topics include customer expectations, advanced markup language, multimedia technologies, usability and accessibility practices, and techniques for the evaluation of web design. Upon completion, students should be able to employ advanced design techniques to create high impact and highly functional web sites.

Prerequisites: WEB 140 (Local)
Corequisites: None
Distance Education: Internet

-
- WEB 211 Advanced Web Graphics** S Day or 2 2 3
S Evening
- This course is the second of two courses covering web graphics. Topics include graphics acquisition using scanners and digital cameras, graphics optimization, use of masks, advanced special effects, GIF animation, and other related topics. Upon completion, students should be able to create graphics optimized for size, graphic file type, properly converted from digitized sources and create useful animated graphics.
- Prerequisites: WEB 111 (Local) and WEB 110
Corequisites: None
Distance Education: Hybrid
- WEB 230 Implementing Web Services** S Day or 2 2 3
S Evening
- This course covers website and web server architecture. Topics include installation, configuration, administration, and security of web servers, services and sites. Upon completion, students should be able to effectively manage the web services deployment lifecycle according to industry standards.
- Prerequisites: NET 110 or NET 125
Corequisites: None
Distance Education: Internet, Hybrid
- WEB 250 Database Driven Websites** F Day or 2 2 3
F Evening
- This course introduces dynamic (database-driven) website development. Topics include the use of basic database CRUD statements (create, read, update and delete) incorporated into web applications, as well as in software architecture principles. Upon completion, students should be able to design and develop database-driven web applications according to industry standards.
- Prerequisites: DBA 110 and WEB 140
Corequisites: None
Distance Education: Internet, Hybrid
- WEB 260 E-Commerce Infrastructure** S Day or 2 2 3
S Evening
- This course introduces the concepts and tools to implement electronic commerce via the Internet. Topics include application and server software selection, securing transactions, use and verification of credit cards, publishing of catalogs, documentation, and site administration. Upon completion, students should be able to set up a working e-commerce Internet web site.
- Prerequisites: WEB 250
Corequisites: None
- WEB 287 Web E-Portfolio** S Day or 1 2 2
S Evening
- This course covers the creation and organization of a web-based e-portfolio that includes a resume, references, and comprehensive academic and work samples. Emphasis is placed on creating an e-portfolio with solid design and demonstrable content, the production of a resume and self-promotional materials, and interview techniques. Upon completion, students should be able to present their own domain with included professional e-portfolio elements of resume, sample work, and related self-promotional materials.
- Prerequisites: None
Corequisites: None
Distance Education: Internet, Hybrid

WEB 289 Internet Technologies Project

TBA Day
TBA Evening

1 4 3

This course provides an opportunity to complete a significant Web technologies project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, documentation, installation, testing, presentation, and training. Upon completion, students should be able to complete an Internet project from the definition phase through implementation.

Prerequisites: WEB 230 and WEB 250

Corequisites: None

Distance Education: Internet, Hybrid

WELDING

WLD 110 Cutting Processes

F Day
F Evening

1 3 2

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.

Prerequisites: None

Corequisites: None

WLD 112 Basic Welding Processes

TBA Day
No Evening

1 3 2

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.

Prerequisites: None

Corequisites: None

WLD 115 SMAW (Stick) Plate

F (S On Demand) Day
F (S On Demand) Evening

2 9 5

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.

Prerequisites: None

Corequisites: None

WLD 116 SMAW (Stick) Plate/Pipe

S (F On Demand) Day
S (F On Demand) Evening

1 9 4

This course is designed to enhance skills with the shielded metal arc (stick) welding process. Emphasis is placed on advancing manipulative skills with SMAW electrodes on varying joint geometry. Upon completion, students should be able to perform groove welds on carbon steel with prescribed electrodes in the flat, horizontal, vertical, and overhead positions.

Prerequisites: WLD 115

Corequisites: None

WLD 121 GMAW (MIG) FCAW/Plate S Day 2 6 4
S Evening

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.

Prerequisites: None

Corequisites: None

WLD 122 GMAW (MIG) Plate/Pipe S (F On Demand) Day 1 6 3
S (F On Demand) Evening

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, and making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry.

Prerequisites: WLD 121

Corequisites: None

WLD 131 GTAW (TIG) Plate F Day 2 6 4
F Evening

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.

Prerequisites: None

Corequisites: None

WLD 132 GTAW (TIG) Plate/Pipe S Day 1 6 3
S Evening

This course is designed to enhance skills with the gas tungsten arc (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry.

Prerequisites: WLD 131

Corequisites: None

WLD 141 Symbols & Specifications S Day 2 2 3
S Evening

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.

Prerequisites: None

Corequisites: None

WLD 151 Fabrication I

SU Day **2 6 4**
TBA Evening

This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment.

Prerequisites: WLD 110, WLD 115, WLD 116, and WLD 131

Corequisites: None



Continuing Education

General Information
Corporate Education
Small Business Center
Occupational & Certification Programs
Online Classes (Ed2Go)
Community Education Programs
Pre-College Studies

An important function of the college is to provide numerous courses for the continuing education of adults. The development of these courses is based upon the needs and interests of the professional, business, industry, and civic communities within the college's two county service area.

Continuing Education programs promote the concept of lifelong learning by providing meaningful educational experiences that will help adults meet occupational and professional goals and fulfill social and personal needs. Courses and programs are offered that allow adults to achieve their full potential in our ever-changing world of knowledge, skill, and understanding. The diversity of these programs ranges from basic reading and writing skills, to vocational and technical upgrading, to specialty certification, to cultural and personal enrichment.

Class Locations

Classes are held on the Rowan-Cabarrus Community College campuses, as well as in surrounding communities and within particular businesses or industries throughout Rowan and Cabarrus counties.

Admission

Admission to Continuing Education classes is open to individuals 18 years of age or older. Individuals less than 18 years old who are high school graduates or whose high school class has graduated may also enroll in these courses. High school juniors and seniors, 16 years of age and older, may enroll with permission from high school officials. Individuals interested in attending any occupational extension or community services course may pre-register by visiting the college or attending the first class. Applicants are accepted on a "first come, first serve" basis.

Class Schedule

Classes are normally scheduled on an ongoing basis with new classes generally beginning each September, January, March, and June. Special seminars and industrial courses may be scheduled to begin at any time period appropriate to a company and Rowan-Cabarrus Community College.

Specific announcements of course offerings, registration dates, and places will be made through local news media and other appropriate means approximately three weeks prior to the beginning of the course. For current course information, please call 704-216-3512 or 704-216-3742. Course information is also accessible at the college's website at www.rowancabarrus.edu/.

Minimum Enrollment Required

Normally a course will be offered when a minimum number of persons enroll. The college reserves the right to cancel any course when an insufficient number of people register.

Class Hours

The majority of occupational extension and community service courses are offered one or two evenings per week for 6-12 weeks. Courses may meet for one to four hours per session. Special extension, industrial, and seminar programs may be scheduled at the convenience of the participants and the college.

Fees

For all occupational extension and community services courses, there is a required registration fee. In compliance with North Carolina statutes, however, this fee may be waived for selected individuals.

Other costs in these classes may include textbooks and/or equipment and supplies. In a limited number of self-supporting classes and seminars, special fees may be charged. If you are a North Carolina resident, 65 years old or older, you are exempt from **most** registration and tuition fees. **Textbook and/or course supply fees may still be required.**

Registration fees are subject to change contingent upon action by the N.C. General Assembly.

Refunds are not issued after the 10% census date of the course.

Course Repeat Policy

A student may enroll in the same occupational class only **two times within five years**. After the second enrollment in any given course, the student may take the course at a pro-rata cost to the student determined by the State Board of Community Colleges.

Continuing Education Units (C.E.U.)

The Southern Association of Colleges and Schools, of which Rowan-Cabarrus Community College is an accredited member, has recommended that the Continuing Education Unit (C.E.U.) be used as the basic instrument of measurement for an individual's participation in non-credit classes, courses, and programs. The C.E.U. is a unit measure. One C.E.U. is defined as ten contact hours of participation in an organized continuing education (adult or extension) experience under responsible sponsorship, capable direction, and qualified instruction.

Continuing Education Units are offered for courses that are applicable to professional certification, license renewal, and many professional and occupational upgrading courses.

Corporate Education

Rowan Cabarrus Community College can help your company be as effective and productive as possible through our quality education and training programs. RCCC provides needs assessment, development and training services for businesses, agencies and industries that can be specifically targeted to your company's needs. RCCC, in conjunction with the North Carolina Community College System, has three specific programs to aid businesses and industries in the training of their workforce.

New and Expanding Industry Training Program

The purpose of the New and Expanding Industry Training program is to provide customized training assistance in support of new, full-time production positions in your company to enhance your growth potential. We will help you meet your immediate training needs and encourage your company to develop an internal long-range training program to satisfy your replacement and retraining needs.

Companies are eligible for customized training assistance from the North Carolina Community College System if 12 or more jobs are created in one community in one year. The level of assistance is determined by the total number of new jobs created, their skill and wage levels, and the total amount of capital investment. Resources may support training assessment, instructional design, instructional costs, and training delivery for new personnel involved in the direct production of goods and services. Production and technology support positions are also eligible for training support.

Examples of customized courses offered through NEIT include:

- Pre-employment Training
- Safety Training
- Leadership and Interpersonal Skills Development
- Quality Initiatives
- Technical Training

For more information on RCCC's New and Expanding Industry Training Program, contact Ann Morris at morrisa@rowancabarrus.edu or 704-216-3542.

Focused Industry Training Program

The Focused Industry Training program is designed to assist business and industries with training needs assessment, instructional design, instructional costs, and training delivery for personnel involved in the direct production of goods and services. This program is primarily directed toward incumbent employees who need to update their skills and technical knowledge because of technological changes within the workplace. Focused Industry Training offers flexible scheduling and may accommodate the needs of small groups of employees.

Companies eligible for training assistance through the Focused Industry Training Program include:

- Manufacturing
- Warehousing and distribution
- Business support services
- Biotechnology
- Companies that design and program computers and telecommunication systems
- Any company seeking training for its industrial maintenance personnel

Some examples of customized technical classes that can be offered in response to a company's need are:

- Forklift Safety Training
- Powered Industrial Truck Training
- Lockout/Tagout Training
- Arc Flash/Electrical Hazard Training
- Programmable Logic Controllers
- Variable Frequency Drives

These classes can be structured as single courses or a customized series of courses. To explore arranging a class specifically for your company, contact Donna Ludwig at ludwigd@rowancabarrus.edu or 704-216-3668.



Corporate and Professional Development

RCCC's Corporate and Professional Development program provides a wide range of learning opportunities for individuals, groups and organizations in Rowan and Cabarrus counties.

Customized training, designed specifically to meet the needs of your organization or group, can be conducted on-site or at one of RCCC's multi-campus.

In addition, individuals interested in building or enhancing their professional skills, regardless of their business affiliation, can enroll in open-to-the-public training offerings, typically held at one of our multi-campus sites.

Whether you are interested in customized training and development for your workforce or expanding your individual workplace skills, RCCC's Corporate and Professional Development program can serve as your key resource for quality education and training.

A partial list of service solutions include:

- Assessment Tools
- Leadership & Professional Development
- Team Building
- Process Improvement (Lean, Six Sigma, 5S + 1, Value-Stream Mapping, SPC, etc.)
- Computer Training (Microsoft Office Suite, including Excel, Word, PowerPoint, Access)
- Safety Training (OSHA Industrial and Construction)
- Survival Spanish (For Educators, Customer Service, Employers, etc.)
- Project Management
- Customer Service

Let us help you enhance your skills for the workplace of today and tomorrow. To discuss your training and development needs, contact DeAnn Basden at 704-216-3530 or basdend@rowancabarrus.edu.

Small Business Center

The Small Business Center

Through the services provided by the Small Business Center, Rowan-Cabarrus Community College addresses the full spectrum of the needs of small business, which comprise 98% of the business population in the two counties. Small business owners may take advantage of free consultations on a wide range of topics of concern provided by the experienced staff of the Small Business Center.

The Small Business Center also works closely with state and local agencies in providing referrals or access to other sources of additional information. A comprehensive library of references, videos, and computer software packages is maintained for the use of clients as well. Workshops and seminars are organized and provided year round for small business owners on common areas of interest to the clients and community that the Small Business Center serves.

In addition, certified staff members teach a one-semester class in business planning, offered on both the North and South campuses, that leads prospective business owners and those planning expansion of their businesses through the process of writing a business plan. BUS 280 and NxLevel participants are encouraged to complete a formal business plan which forms the basis of an operating plan for their business and is required by most lending institutions for consideration for a small business loan.

An exciting new CD, "An Interactive Guide: Starting a New Business in North Carolina," has been added to the Small Business Center toolbox. This interactive product shows clients how to research and gather material needed to complete the business plan template included in the software. Clients scheduling one-on-one confidential counseling sessions will receive a complimentary copy of this valuable business-planning tool.

Alesia Burris, Program Assistant, Small Business Center
704-216-3526
Email address: burrusa@rowancabarrus.edu

Occupational & Certification Programs

In-Service Law Enforcement Training

The In-Service Law Enforcement Training Program at RCCC provides numerous courses for the continuing education of Law Enforcement Officers. Law Enforcement Training courses have been designed for upgrading both experienced and recently employed police officers, deputy sheriff's, Detention Officer's, Telecommunicators and Law Enforcement Officials. The development of these courses is based upon the needs and interest of the Criminal Justice Community and the mandates by the North Carolina Criminal Justice Education Training & Standards Commission and the North Carolina Sheriff's Education Training & Standards Commission.

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704-216-3738
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Email address: brownm@rowancabarrus.edu

Ricky L. Towell, Instructor, On-line In-Service Law Enforcement Training
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Email address: towellr@rowancabarrus.edu

Lynn E. Coughenour Special Assistant, Law Enforcement and Criminal Justice Programs
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Email address: coughenourl@rowancabarrus.edu

Tatia R. Seward, Clerical Support, Law Enforcement and Criminal Justice Programs
704-216-3739
Email address: sewardt@rowancabarrus.edu

Fire & Rescue Training

Rowan-Cabarrus Community College offers courses designed to instruct the Fire and Rescue personnel at all levels. These include both initial and on-going licensure requirements for the performance of these occupations. Our courses include training in all skills necessary for the individual to provide firefighting, swift water rescue, trench rescue, confined space rescue and the rescuing of trapped and/or injured people. Fire and Rescue personnel provide service in an environment requiring special skills and knowledge in the areas of communications, stabilization of hazards to community and environment, and maintenance of records. They also serve as liaisons with other emergency service providers.

Roger McDaniel, Director, Emergency Services
704-216-3501
Email address: mcdanielr@rowancabarrus.edu

Danny Scott, Assistant Director, Emergency Services
704-216-3519
Email address: scottd@rowancabarrus.edu

Emergency Medical Training

Rowan-Cabarrus Community College offers courses designed to instruct the Emergency Medical Technician (EMT) student at all levels. EMTs serve as vital links in the chain of the health care team. Training covers all skills necessary for the individual to provide emergency medical care at the basic life support level and ALS level with an EMS unit or other specialized service. The EMT provides a service in an environment requiring special skills and knowledge in the areas of communications, transportation, and maintenance of records. They also serve as liaisons with other emergency service providers.

Roger McDaniel, Director, Emergency Services
704-216-3501
Email address: mcdanielr@rowancabarrus.edu

Danny Scott, Assistant Director, Emergency Services
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Teacher Renewal Credit Program

To satisfy CEU requirements for school teachers, RCCC offers 21 pre-approved online courses of 2.4 CEUs each. The online Ed2Go classes are offered monthly and consist of two lessons every week for six weeks that can be accessed on your home or school computer. Classes cover such topics as reading, discipline, computers in the classroom, Spanish and grant writing.

The complete listing of classes with their start dates and registration procedures can be found on the website at www.ed2go.com/rccc2go or call the Continuing Education office at 704-216-3742.

Jack Hamilton

704-216-3742

Email address: hamiltonj@rowancabarrus.edu

Beatrice Reinhard

Email address: reinhardb@rowancabarrus.edu

Health Occupations

Nurse Aide I:

The Nurse Aide I program is designed to teach fundamental skills required of health care professionals. A U.S. high school diploma (or the equivalent) is required for this class. The length of the program is approximately 139 hours (16 weeks). After successful completion of this program, students are eligible to take the N.C., Division of Health Service Regulation Nurse Aide Registry Exam. The registry listing is required to be employed by hospitals, long-term facilities, and home health agencies. Nurse Aide I is a prerequisite for Nurse Aide II, Practical Nursing Program and Nursing Degree Program. Classes are taught days and evenings at North and South Campus. These classes repeat themselves four (4) times a year.

Note: Dates for these classes are not available online. Dates are only released to students who have completed the application process and are on the waiting list for these classes.

Gale Brewer, Special Assistant, Cloverleaf Extension Center

704-216-3657

Email address: brewerg@rowancabarrus.edu

Nurse Aide II:

The Nurse Aide I who desires additional training may take the Nurse Assistant II course to broaden his/her knowledge and learn advanced nursing care skills. The length of this program is approximately 182 hours (14 weeks). Day classes are offered. The clinical sites are limited to hospitals and skilled long-term care facilities. Prerequisites are listed in N.C. as Nurse Aide I and High School Diploma or GED. After successful completion of this program, students are eligible to be listed with the N.C. Board of Nursing, Nurse Aide Central Registry.

Note: Dates for these classes are not available online. Dates are only released to students who have completed the application process and are on the waiting list for these classes.

Gale Brewer, Special Assistant, Cloverleaf Extension Center

704-216-3657

Email address: brewerg@rowancabarrus.edu

Phlebotomy:

The phlebotomy training course is 185 hours in length, divided into 48 hours of lecture and student lab training and 137 hours of clinical experience. Clinical sites include Northeast Medical Center, Rowan Regional Medical Center, the VA Medical Center, Lake Norman Regional Medical Center and Rowan Family Physicians. Topics addressed in the course include circulatory anatomy and physiology, phlebotomist role in the health care system, phlebotomy procedure and responsibilities, routine clinical laboratory tests, various collection techniques and patient characteristics. Students will perform venipunctures on a mechanical arm until competent. Once competency is established, venipunctures on a clinical laboratory patient under supervision will be permitted. On successful completion of the objectives, the student will be eligible to apply for a national certification examination given by the American Society of Clinical Pathologists (ASCP).

Pre-requisites: a U.S. High School Diploma or GED.

Note: Dates for these classes are not available online. Dates are only released to students who have completed the application process and are on the waiting list for these classes.

Gale Brewer, Special Assistant, Cloverleaf Extension Center

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Email address: brewerg@rowancabarrus.edu

Mammography:

Mammography is 77.5 hours and is designed to provide professional education in the field of mammography to American Society of Radiologic Technologist (ASRT) registered technologists. It has been designed to meet the MQSA requirements set by the FDA. Upon completion of this course, participants will be registry eligible under ASRT's year 2004 requirements. The didactic section of this course has also been approved by the American Society of Radiologic Technologists. It carries 72.5 class A continuing education credits.

Claude Lingle, Director, Health Occupations

704-216-3553

Email address: linglec@rowancabarrus.edu

LPN IV Certificate:

I.V. Therapy Administration training is 20 hours and is taught annually during the fall semester. It is a prerequisite course for students who are LPNs (with a current N.C. License) entering the second year of the Associate Degree Program. This course will meet the prerequisite requirement for A.D.N. completion program for the Licensed Practical Nurse.

Claude Lingle, Director, Health Occupations

704-216-3553

Email address: linglec@rowancabarrus.edu

Online Classes Ed2Go

The Continuing Education online classes allow participants to learn career-related and interest-oriented topics from the convenience of their home, office or laptop! ED2GO online classes not only enhance knowledge but also improve skills. These online classes are provided to meet the needs and interests of the professional, business, industry and civic communities.

A large selection of online courses are available to students. Categories include computer topics and application software, web development software, business courses, writing courses, and personal enrichment. Class offerings are updated periodically.

Cindy Cofer

704-216-3512

Email address: coferc@rowancabarrus.edu

Community Education Programs

General & Personal Enrichment

This program offers short-term courses for self-improvement, cultural enrichment, and academic achievement to individuals 18 years of age and older. The program is intended to meet the growing needs and interests of the community. The purpose is to give an individual a chance to pursue special interests and to fill his/her leisure time with worthwhile educational projects. Some of these include contemporary issues, ceramics, stained glass, sign language, watercolors, and motorcycle safety.

Additional information regarding community services courses may be obtained by contacting the Continuing Education Office 704-216-3512 or 704-216-3742.

Human Resources Development Program (HRD)

The Human Resources Development Program provides short-term, pre-vocational training and counseling designed to help unemployed and underemployed adults successfully enter the work force or receive further training. Students who meet specific income and low employability guidelines may be exempt from registration fees.

Students may enroll for a period of instruction that averages six to ten weeks. The curriculum focuses on training which helps students learn how to find a job and gain skills necessary for obtaining employment. The program includes study in the following areas: basic computer skills, career readiness, introduction to medical office work, and resume preparation.

For additional information about HRD classes, please contact:

Molly Cline, Director, HRD

704-216-3511

Email address: clinem@rowancabarrus.edu

Career Readiness Certification

North Carolina's Career Readiness Certificate is a portable credential that promotes skills and career development of individuals and confirms to employers that they possess basic workplace skills in:

- Applied Mathematics
- Reading For Information
- Locating Information

The North Carolina Career Readiness Certificate is based on the ACT WorkKeys system, a nationally recognized, EEOC-compliant industry-driven system of job profiling, assessment and instructional support.

For individuals, the Career Readiness Certificate:

- Increases your chances for employment and promotion
- Focuses on employment-related competencies needed in any career
- Provides training to help you obtain certification
- Is a portable credential recognized by employers

“The Career Readiness Certificate demonstrates that North Carolina’s workers have the knowledge, talent and skill to succeed in the 21st century workplace and helps employers better match workers to the right jobs. We will continue to make the necessary investments in education, workforce development and infrastructure to provide the nation’s best workforce.”
North Carolina Governor
Michael Easley

For more information, contact Barbara Meidl at 704-216-7212 or meidlb@rowancabarrus.edu or Carol Allen at 704-216-7210 or allenc@rowancabarrus.edu.

Pre-College Studies

Adult Basic Education Program (ABE)

Adult Basic Education provides education for adults 18 years old or older. Emphasis is placed on reading, writing, spelling, and arithmetic. As students gain these skills, they expand their understanding of specific areas of occupational knowledge, consumer economics, health, government and law, and community resources.

Classes are held on campus and in the surrounding community. No registration fee is charged, and materials are provided by the college. The materials used are designed for adults, and the information gained has a practical application to everyday living. Upon completion of the Adult Basic Education Program, students are encouraged to enroll in GED completion classes.

For more information, call Gary Connor at 704-216-3723 or 704-216-3510.

Email address: connorg@rowancabarrus.edu

High School Equivalency Program (GED)

The High School Equivalency Program (GED) provides an opportunity for adults who have not completed their high school education to prepare for the General Education Development (GED) Test. This test enables an adult to demonstrate his/her general education competencies and be awarded a North Carolina Equivalency Diploma. The GED diploma is generally recognized and accepted as equivalent to a traditional high school diploma. Instruction is provided, at no cost to the student, in social studies, science, literature, mathematics, and writing skills.

To receive the GED diploma, a total standard score of 2250 on the GED test battery is required, with no single score below a 410.

It takes approximately eight hours to complete the entire GED test battery. A one-time testing fee of \$7.50 is required.

For more information, call Gary Connor at 704-216-3723 or 704-216-3510.

Email address: connorg@rowancabarrus.edu

English as a Second Language (ESL)

ESL classes are designed especially for adults whose native language is not English. Instruction is offered in listening, speaking, reading, and writing in English. Both open-entry/open-exit classes and more traditionally structured classes are provided on campus, in the community, and in workplace settings.

For more information, call Melody McGinnis at 704-216-3521 or 704-216-3510.

Email address: mcginnism@rowancabarrus.edu

Compensatory Education (CED)

Compensatory Education is a community college program designed specifically for adults with intellectual disabilities. The purpose of the program is to compensate adults with developmental disabilities for the lack of, or inadequate, education received earlier. The focus of the Compensatory Education Program is on helping the individual become as independent as possible through acquiring basic and life skills needed to function successfully in daily life.

Eligibility criteria: To be eligible to participate in the Compensatory Education Program, an individual must be 17 years old or older, and (a) diagnosed with mental retardation or (b) functioning on a level equivalent to mental retardation resulting from head injury or brain damage.

For more information, call Barbara Gainey at 704-216-3508 or 704-216-3510.

Email address: gaineyb@rowancabarrus.edu

actical #1 Next Week Feb 5

Book Exercises 1,2,3,4,5A due Feb 5

Quiz Feb 12



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Cisco Certified Network Associate
Oracle Certified Instructor
Linux Professional Institute, Linux Certified Instructor
Novel Certified Linux Professional
Certified Internet Webmaster
Certified Program Manager
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B.S., Appalachian State University

Daphne Lewis

Director, Grants Development
B.A., John Wesley College
Notary
CFRE (Certified Fund Raising Executive)

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Amy Moorhead

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Rowan-Cabarrus Community College

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A.A.S., Rowan-Cabarrus Community College

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Study, Rowan-Cabarrus Community College

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A.A.S., Rowan-Cabarrus Community College
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Betty Webb

Copy Center Clerk

Facilities and Maintenance

Gayle Phipps

Director, Facility Services
A.A.S., Winsalm College

Karen Blakeney

Maintenance, South Campus

Tony Fox

Associate Director, Facilities, South Campus

Steven Harris

Plant Maintenance Assistant, South Campus

Jimmy L. Head

Painter

William A. Heglar

Plant Maintenance Assistant, North Campus

Frances Howie

Housekeeping, South Campus

Daniel Huynh

Maintenance, North Campus
Diploma, Rowan-Cabarrus Community College
Additional Study, Rowan-Cabarrus Community College

John Kneip

Facilities Maintenance Technician
Diploma, Rowan-Cabarrus Community College

Phyllis Lynch

Housekeeping, South Campus

Grace Lowery

Housekeeping, Extension Center and Cosmetology Center

Arlet Most

Facilities Maintenance Technician, South Campus

Huong Nguyen

Maintenance, North Campus

Michael Nguyen

Maintenance Technician, North Campus

Carl Ritchie

Facilities Maintenance Technician, South Campus

Mike Robinson

Groundskeeper
A.A.S., Catawba Valley Technical College
Certified Plantsman
Study, Rowan-Cabarrus Community College

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Facilities Maintenance Technician,, South Campus
Study, Rowan-Cabarrus Community College

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Maintenance Technician, North Campus
Diploma, Rowan-Cabarrus Community College

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Denise Surratt

Maintenance, North Campus

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Maintenance Technician, North Campus



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** The following information includes changes in the Catalog from the printed/CD versions. **

08-26-09	<p>The Graduation Honors section on p. 42 has been updated as follows:</p> <p>All graduation honors are awarded for the specific degree or diploma coursework in which the student was enrolled. Students who earn a grade-point average of 3.0 through 3.49 out of a possible 4.0 will graduate "With Honors. Those students who earn a 3.5 and higher out of a possible 4.0 will graduate "With High Honors." Those students who earn a 4.0 will graduate with "Highest Honors."</p>
03-19-09:	<p>Grading on page 36 of the catalog:</p> <p>The third paragraph has been updated as follows:</p> <p>For students enrolled in the Associate Degree Nursing and Practical Nursing programs, numerical grades below 80 (C) in the NUR courses and/or an unsatisfactory lab or clinical evaluation will result in the student's inability to progress in the nursing program (See ADN/PN Competency Standards/Progression Policy). For students enrolled in the Radiography (RAD) and Dental Assisting programs, numerical grades below 77 (C) in Radiography (RAD), Dental Assisting (DEN) and Biology (BIO) courses are considered unsatisfactory attainment of course competencies. In these instances, students will not be allowed to progress in the program.</p>
10-13-08:	<p>Intellectually Gifted Students on page 41 of the catalog:</p> <p>Effective September 1, 2008, the Intellectually Gifted and Mature Students legislation expired pursuant to S.L. 2001-312,4. This enrollment option is no longer available.</p>

Rowan-Cabarrus Community College

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General Occupational Technology

Award(s) Offered:

A55280 - [Associate in Applied Science Degree](#)

For additional information regarding this program, contact the appropriate academic dean:

Gary Bigelow	Industrial & Engineering Technologies Department	3900	<input type="checkbox"/>
Terry Chapman	Health & Public Services Technologies Department	3700	<input type="checkbox"/>
Marcy Corjay	Science, Biotechnology, and Mathematics Department	7217	<input type="checkbox"/>
Lou Dorton-Shue	Health & Public Services Technologies - Special Programs Department	3926	<input type="checkbox"/>
Linda Earnhardt	Information Technologies Department	3670	<input type="checkbox"/>
Yolanda Wilson	Liberal Arts & General Education Department	3750	<input type="checkbox"/>

General Occupational Technology A.A.S. (A55280):

The General Occupational Technology (GOT) curriculum program is intended to meet the needs of individual students or groups of students who require programs other than those offered through the structure of the college's approved curricula. This program provides individuals with the opportunity to upgrade their skills and to earn an associate degree by taking courses suited for their occupational interests and /or needs.

The curriculum content will be individualized for students according to their occupational interests and needs. For the student seeking an associate degree, a program of study will be selected from associate degree-level courses offered by the college and MUST be approved by the appropriate program head, dean, and Director of the Occupational Technology program.

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

To enroll in this program, individuals must complete the following steps:

- fill out an application to RCCC; (see [Admissions](#) website)
- schedule to take the [Placement Tests](#), including the Basic Computer Competency Test;
- and make an appointment with the appropriate dean as listed above to develop an individualized program of study

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Associate Degree Nursing

Related Information:

[Practical Nursing \(LPN\)](#) :: [LPN to ADN Transition Option](#) :: [Associate Degree Nursing \(ADN\)](#)
Department: [Health & Public Services Technologies](#)
Award(s) Offered:

A45110-[Associate in Applied Science Degree](#)
Important Policies:

[ADN Philosophy](#)
[ADN Competency Standards](#)
[ADN Advanced Placement Policy](#)
[ADN Graduation Policy](#)
[NUR Clinical Behavior Policy](#)

For additional information regarding this program, contact **Cathy Norris, Director of Nursing**
 Phone: [704-216-3701](tel:704-216-3701) / Email: [✉](#)

Full-Time Faculty Information:

 Please refer to the [Faculty Directory Listing](#).

Estimated Cost by Semester:

 Click [here](#) to view an "estimated" program cost by semester.

Description:

The Associate Degree Nursing curriculum provides individuals with the knowledge and skills necessary to provide nursing care to clients and groups of clients throughout the lifespan in a variety of settings.

Courses will include content related to the nurse's role as provider of nursing care, as manager of care, as member of the discipline of nursing, and as a member of the interdisciplinary team.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN) which is required for practice as a Registered Nurse. Employment opportunities include hospitals, long term care facilities, clinics, physicians' offices, industry, and community agencies.

The following Program Admission Requirements are subject to change:

- [Checklist](#) for Associate Degree Nursing
- [Health Information Sessions](#)
 (Part of the admission requirements is attending an information session in your field of interest - **students are required to attend one health information session the year prior to admission.**)
- [Admission Requirements](#) for Associate Degree Nursing.

Suggest Course Sequence:

		Title	Class	Lab	Clinical	Work Exp.	Credits
Fall Semester							
	ENG	111	Expository Writing	3	0	0	3
	BIO	168	Anatomy and Physiology I	3	3	0	4

■	NUR	111	Introduction to Health Concepts	4	6	6	0	8
	PSY	150	General Psychology	3	0	0	0	3
**	COE	110	World of Work	1	0	0	0	1
Total				13-14	9	6	0	18-19
First Year (Spring)								
	BIO	169	Anatomy and Physiology II	3	3	0	0	4
	ENG	112	Argument-Based Research	3	0	0	0	3
■	NUR	112	Health-Illness Concepts	3	0	6	0	5
■	NUR	211 (AB)	Health-Illness Concepts - Part A	1.5	0	3	0	2.5
	PSY	241	Developmental Psychology	3	0	0	0	3
**	COE	110	World of Work	1	0	0	0	1
Total				13.5 - 14.5	3	9	0	17.5 - 18.5
First Year (Summer)								
■	NUR	211 (BB)	Health-Illness Concepts - Part B	1.5	0	3	0	2.5
■	NUR	113	Family Health Concepts	3	0	6	0	5
**	COE	110	World of Work	1	0	0	0	1
OR								
**	COE	111	Co-op Work Experience I	0	0	0	10	1
Total				4.5-5.5	0	9	0-10	7.5-8.5
Second Year (Fall)								
	BIO	275	Microbiology	3	3	0	0	4
■	NUR	114	Holistic Health Concepts	3	0	6	0	5
■	NUR	212	Health System Concepts	3	0	6	0	5
**	COE	110	World of Work	1	0	0	0	1
OR								
**	COE	111	Co-op Work Experience I	0	0	0	10	1
Total				9-10	3	12	0-10	14-15
Second Year (Spring)								
■	NUR	213	Complex Health Concepts	4	3	15	0	10
**	COE	110	World of Work	1	0	0	0	1
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
Total				7-8	3	15	0	13-14
Total Semester Hours Credit (SHC) in Program:								71

■ This is a Core Course and cannot be substituted.

Note: If COE 111 is selected, students should contact the Director of Cooperative Education regarding special cooperative education requirements for ADN students.

**** Students who select COE 110 may take the course prior to admission or corequisite with a NUR course. Students who select COE 111 must take this course in Summer Term or Fall Semester of the second year and in accordance with approval by the Director of Nursing Education.**

Note: Class sessions and clinical rotations in NUR courses for both day & evening option will be scheduled during weekdays, evenings or weekends.

Note: For students enrolled in the Associate Degree Nursing and Practical Nursing Program numerical grades below 80 (C) in all required nursing courses and 77(C) in all non-nursing courses are considered unsatisfactory attainment of course competencies.

Note: Class sessions for the evening option may require alternative day scheduling depending on class size.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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2009-10 Programs of Study

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Basic Law Enforcement Training (BLET)

Department: [Health & Public Services Technologies](#)

Award(s) Offered:

C55120 - [Certificate Program](#)

For additional information regarding this program,
contact **Program Head Spencer Rummage**
Phone: [704-216-3738](tel:704-216-3738) / Email: [✉](mailto:spencer.rummage@rowan-cabarrus.edu)

[Click here](#) for Continuing Education Law Enforcement
Training information.

Description:

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

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

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

CREDIT, HOURS, PREREQUISITES:

- A. 19 Semester Hour Credits
- B. Nine Lecture Hours; 30 Lab Hours Per Week; 624 Contact Hours
- C. Prerequisites: None
Corequisites: None

The following Admission Requirements are subject to change:

- [Admission Requirements](#) for Basic Law Enforcement Training (BLET).
Note: includes Steps to Enrollment

	Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)						
CJC 100	Basic Law Enforcement Training	9	30	0	0	19
Total Semester Hours Credit (SHC) in Program:						19

BLET Transfer Credit:

Students successfully completing Basic Law Enforcement Training at a school accredited by the N.C. Criminal Justice Training and Standards Commission will receive 10 semester hours credit toward their Associate in Applied Science degree in Criminal Justice Technology at Rowan-Cabarrus Community College. These students must have successfully completed Basic Law Enforcement Training since 1985. RCCC only ensures acceptance of these transfer credit in our Associate in Applied Science – Criminal Justice Technology degree program. These transfer credits may or may not be accepted by a

four-year institution. Students are responsible for checking the degree requirements of the four-year institution to which they intend to transfer.

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Criminal Justice Technology

Department: [Health & Public Services Technologies](#)

Award(s) Offered:

A55180 - [Associate in Applied Science Degree](#)

C55180 - [Certificate Program](#)

For additional information regarding this program,
contact **Program Head Spencer Rummage**
Phone: [704-216-3738](tel:704-216-3738) / Email: spencer.rummage@rowancc.edu

[Click here](#) for Continuing Education Law Enforcement
Training information.

Description:

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

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

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

Suggested Course Sequence:

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA	115	Success and Study Skills	0	2	0	1
■	CJC	111	Introduction to Criminal Justice	3	0	0	3
	CJC	121	Law Enforcement Operations	3	0	0	3
■	CJC**	131	Criminal Law	3	0	0	3
	ENG	111	Expository Writing	3	0	0	3
	PSY	150	General Psychology	3	0	0	3
		Total	15	2	0	0	16
First Year (Spring)							
	CIS	110	Introduction to Computers	2	2	0	3
■	CJC	112	Criminology	3	0	0	3
■	CJC	113	Juvenile Justice	3	0	0	3
	ENG	112	Argument-Based Research	3	0	0	3
	SOC	210	Introduction to Sociology	3	0	0	3
		Total	14	2	0	0	15

	---	---	Major Elective*	3	0	0	0	3
			Total	17	2	0	0	18
Second Year (Fall)								
	CJC	141	Corrections	3	0	0	0	3
■	CJC	212	Ethics & Community Relations	3	0	0	0	3
■	CJC**	231	Constitutional Law	3	0	0	0	3
	MAT	140	Survey of Mathematics	3	0	0	0	3
			OR					
	MAT	161	College Algebra	3	0	0	0	3
			OR					
	MAT	175	Precalculus	4	0	0	0	4
	---	---	Major Elective*	0-3	0	0	0-30	3
			Total	12-16	0	0	0-30	15-16
Second Year (Spring)								
	CJC	132	Court Procedure & Evidence	3	0	0	0	3
	CJC	214	Victimology	3	0	0	0	3
■	CJC**	221	Investigative Principles	3	2	0	0	4
	COM	231	Public Speaking	3	0	0	0	3
			OR					
	COM	110	Introduction to Communication	3	0	0	0	3
	---	---	Humanities / Fine Arts Elective	3	0	0	0	3
			Total	15	2	0	0	16
Total Semester Hours Credit (SHC) in Program:								65-66

■ **This is a Core Course and cannot be substituted.**

Note: Criminal Justice employers require criminal background checks and a criminal record may prohibit employment.

**** BLET Transfer Credit:**

Students successfully completing Basic Law Enforcement Training at a school accredited by the N.C. Criminal Justice Training and Standards Commission will receive BLET transfer credit for these courses (10 semester hours). These students must have successfully completed Basic Law Enforcement Training since 1985. RCCC only ensures acceptance of these transfer credits in our Associate in Applied Science – Criminal Justice Technology Degree Program. These transfer credits may or may not be accepted by a four-year institution to which they intend to transfer.

***Major Electives:**

Select 6 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
	CJC	160	Terrorism: Underlying Issues	3	0	0	3
	CJC	222	Criminalistics	3	0	0	3
	CJC	223	Organized Crime	3	0	0	3
	CJC	225	Crisis Intervention	3	0	0	3
	CJC	233	Correctional Law	3	0	0	3
	CJC	241	Community-Based Corrections	3	0	0	3
	POL	120	American Government	3	0	0	3
	SOC	213	Sociology of the Family	3	0	0	3
	SPA	111	Elementary Spanish I	3	0	0	3
	SPA	112	Elementary Spanish II	3	0	0	3
	COE	110	World of Work	1	0	0	1
	COE	111	Co-op Work Experience I	0	0	10	1
	COE	112	Co-op Work Experience I	0	0	20	2
	COE	113	Co-op Work Experience I	0	0	30	3
	COE	121	Co-op Work Experience II	0	0	10	1
	COE	122	Co-op Work Experience II	0	0	20	2

COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

Criminal Justice Technology Certificate Program (C55180):

Courses			Credit Hours
CJC	111	Introduction to Criminal Justice	3
CJC	121	Law Enforcement Operations	3
CJC	141	Corrections	3
PSY	150	General Psychology	3
SOC	210	Introduction to Sociology	3
Total Semester Hours Credit:			15

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

Rowan-Cabarrus Community College

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Dental Assisting

Department: [Health & Public Services Technologies](#)

Award(s) Offered:

D45240 - [Diploma Program](#)

For additional information regarding this program,
contact **Program Head Linda Kamp**
Phone: [704-216-3726](tel:704-216-3726) / Email: linda.kamp@rowancc.edu

Description:

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

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

The Dental Assisting program is accredited by the Commission on Dental Accreditation. Graduates of ADA accredited dental assisting programs are DA IIs. As a DA II, defined by the Dental Laws of NC, graduates work in dental offices and other related areas.

Upon completion of the program, graduates are eligible to take the Dental Assisting National Board to become Certified Dental Assistants.

The following Admission Requirements are subject to change:

- [Checklist](#) for Dental Assisting.
- [Health Information Sessions](#)
(Part of the admission requirements is attending an information session in your field of interest - **students are required to attend one health information session the year prior to admission.**)
- [Admission Requirements](#) for Dental Assisting.

The General Occupational Technology Degree (GOT) program offers students enrolled in the Dental Assisting diploma program the opportunity to earn an A.A.S. degree. Students interested in this GOT program should make an appointment with the Director of General Occupational Technology immediately after completing the application and placement testing process in order to avoid taking courses that will not count toward the degree. Students wishing to obtain the GOT degree with a Concentration in Dental Assisting should substitute the following diploma General Education courses:

- ENG 111 and COM 231 should be substituted for ENG 102.
- PSY 150 should be substituted for PSY 118.
- BIO 168, BIO 169, and BIO 275 should be substituted for BIO 106 (Even though BIO 168 will satisfy the Mathematics/Natural Sciences requirement for the GOT program, BIO 169 and BIO 275 are required for students pursuing a Dental Hygiene program at another community college and is also required by the Commission on Dental Accreditation for the Dental Assisting program.)

In addition to these course substitutions, anyone pursuing the GOT degree must select a [humanities/fine arts elective](#).

Pre-dental Hygiene:

Students wishing to enter a dental hygiene program can complete the General Education core requirements at RCCC for transfer. The student MUST contact the hygiene program or programs to acquire a list of the General Education core requirements specific to that program. However, completion of these General Education requirements does NOT assure acceptance into a dental hygiene program. It is the student's responsibility to apply to the program of his or her choice and to meet specific admission requirements of that college.

Dental Diploma Program (D45240):

			Title	Class	Lab	Clinical	Work Exp.	Credits
Fall Semester								
■	DEN	100	Basic Orofacial Anatomy	2	0	0	0	2
■	DEN	101	Preclinical Procedures	4	6	0	0	7
■	DEN	102	Dental Materials	3	4	0	0	5
■	DEN	111	Infection/Hazard Control	2	0	0	0	2
	ENG	102	Applied Communications II	3	0	0	0	3
			Total	14	10	0	0	19
Spring Semester								
■	DEN	103	Dental Sciences	2	0	0	0	2
■	DEN	104	Dental Health Education	2	2	0	0	3
■	DEN	105	Practice Management	2	0	0	0	2
■	DEN	106	Clinical Practice I	1	0	12	0	5
■	DEN	112	Dental Radiography	2	3	0	0	3
			Total	9	5	12	0	15
Summer Term								
	BIO	106	Intro to Anatomy/Physiology/Microbiology	2	2	0	0	3
	CIS	110	Introduction to Computers	2	2	0	0	3
■	DEN	107	Clinical Practice II	1	0	12	0	5
	PSY	118	Interpersonal Psychology	3	0	0	0	3
			Total	8	4	12	0	14
Total Semester Hours Credit (SHC) in Program:								48

■ **This is a Core Course and cannot be substituted.**

- ENG 111 and COM 231 may be substituted for ENG 102.
- PSY 150 may be substituted for PSY 118
- BIO 168, BIO 169, and BIO 275 may be substituted for BIO 106

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Early Childhood Education

General

Related Information:

[General Ed](#) :: [Ed Transfer](#) :: [School-Age Ed - General](#) :: [School-Age Ed - Transfer](#) :: [Infant/Toddler Care](#)
Department: [Health & Public Services Technologies](#)
Award(s) Offered:
A55220 - [Associate in Applied Science Degree](#)D55220 - [Diploma Program](#)C55220 - [Certificate Programs](#)

For additional information regarding this program,
contact **Director Sandra Novick**
Phone: [704-216-3728](tel:704-216-3728) / Email: snovick@rowancc.edu

Full-Time Faculty Information:

 Please refer to the [Faculty Directory Listing](#).

Description:

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

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

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

A criminal background check will be required prior to students entering into EDU 184 and EDU 284. A negative report may prevent students from participating in these required courses which means that the student cannot complete the program requirements. Please contact the Director of Early Childhood Education if you have any questions.

Suggested Course Sequence:

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

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)								
	ACA	115	Success and Study Skills	0	2	0	0	1
■	EDU	119	Intro. to Early Childhood Education	4	0	0	0	4
■	EDU	144	Child Development I	3	0	0	0	3
■	EDU	151	Creative Activities	3	0	0	0	3
■	EDU	153	Health, Safety, & Nutrition	3	0	0	0	3
■	EDU	271	Educational Technology	2	2	0	0	3

				Total	15	4	0	0	17
First Year (Spring)									
■	EDU	145	Child Development II	3	0	0	0	0	3
■	EDU	146	Child Guidance	3	0	0	0	0	3
	EDU	162	Observation and Assessment in ECE	3	0	0	0	0	3
	ENG	111	Expository Writing	3	0	0	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	0	3
			Total	15	0	0	0	0	15
First Year (Summer)									
	PSY	150	General Psychology	3	0	0	0	0	3
	ENG	112	Argument-Based Research	3	0	0	0	0	3
			OR						
	ENG	113	Literature-Based Research	3	0	0	0	0	3
			Total	6	0	0	0	0	6
Second Year (Fall)									
	EDU	184	Early Childhood Introductory Practicum	1	3	0	0	0	2
■	EDU	221	Children with Exceptionalities	3	0	0	0	0	3
	EDU	251	Exploration Activities	3	0	0	0	0	3
■	EDU	280	Language & Literacy Experiences	3	0	0	0	0	3
	---	---	Major Elective*	3	0	0	0	0	3
			Total	13	3	0	0	0	14
Second Year (Spring)									
	COM	231	Public Speaking	3	0	0	0	0	3
■	EDU	131	Children, Family, and Community	3	0	0	0	0	3
■	EDU	284	Early Childhood Capstone Practicum	1	9	0	0	0	4
	---	---	Major Elective*	3	2	0	0	0	3
	---	---	Mathematics/Natural Sciences Elective**	3	0-3	0	0	0	3-4
			Total	13	9-12	0	0	0	16-17
Total Semester Hours Credit (SHC) in Program:									68-69

■ **This is a Core Course and cannot be substituted.**

*Major Electives:

Select 6 semester hour credits from the following:

		Title	Class	Lab	Clinical	Work Exp.	Credits
EDU	157	Active Play	2	2	0	0	3
EDU	234	Infants, Toddlers, & Twos	3	0	0	0	3
EDU	247	Sensory & Physical Disabilities	3	0	0	0	3
EDU	254	Music and Movement	1	2	0	0	2
EDU	259	Curriculum Planning	3	0	0	0	3
EDU	261	Early Childhood Administration I	3	0	0	0	3
EDU	262	Early Childhood Administration II	3	0	0	0	3
EDU	282	Early Childhood Literature	3	0	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	0	3

**Mathematics/Natural Sciences Electives:

Select 3-4 semester hour credits from the following.

		Title	Class	Lab	Clinical	Work Exp.	Credits
AST	111	Descriptive Astronomy AND	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
		OR					
BIO	140	Environmental Biology AND	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	2	0	0	1

BIO	140A	Environmental Biology - Lab	U	S	U	U	I
		OR					
PHY	110	Conceptual Physics AND	3	0	0	0	3
PHY	110A	Conceptual Physics - Lab	0	2	0	0	1
		OR					
MAT	140	Survey of Mathematics	3	0	0	0	3

*Students may select any of the Humanities/Fine Arts electives with the exception of any of the ENG courses.

The requirement for meeting basic mathematical computation skills must be met for the Natural Sciences/Mathematics elective. This can be accomplished by receiving an acceptable score on the basic math section of the placement test or successfully completing [MAT 060](#).

[AST 111A](#), [BIO 140A](#) and [PHY 110A](#) are required ONLY for students who plan to transfer the Natural Science course to a four-year college/university.

Early Childhood Associate Diploma Program (D55220)

Courses				Credits Hours
	ACA	115	Success and Study Skills	1
■	EDU	119	Intro. to Early Childhood Education	4
■	EDU	131	Children, Family & Community	3
■	EDU	144	Child Development I	3
■	EDU	145	Child Development II	3
■	EDU	146	Child Guidance	3
■	EDU	151	Creative Activities	3
■	EDU	153	Health, Safety & Nutrition	3
	EDU	162	Observation and Assessment	3
	EDU	184	Early Childhood Introductory Practicum	2
■	EDU	221	Children with Exceptionalities	3
	EDU	271	Educational Technology	3
	ENG	111	Expository Writing	3
	PSY	150	General Psychology	3
Total Semester Hours Credit:				40

■ This is a Core Course and cannot be substituted.

Early Childhood Associate Certificate Programs (C55220)

Courses			Credit Hours
Child Care Specialist Certificate (C55220CS)			
EDU	119	Introduction to Early Childhood Education	4
EDU	146	Child Guidance	3
EDU	151	Creative Activities	3
Electives		Select 6 hours from the following courses:	
EDU	131	Children, Family & Community	3
EDU	144	Child Development I	3
EDU	145	Child Development II	3
EDU	153	Health, Safety & Nutrition	3
EDU	162	Observation and Assessment	3
EDU	271	Educational Technology	3
Total Semester Hours Credit:			16
Early Childhood Administrators Advanced Certificate (55220EA)			
Requirements: Students must successfully complete the N.C. Early Childhood Credential (EDU 261 and EDU 262) or present an equivalency letter from the N.C. Division of Child Development.			

		AND	
EDU	144	Child Development I	3
EDU	145	Child Development II	3
EDU	146	Child Guidance	3
EDU	259	Curriculum Planning	3
Total Semester Hours Credit:			12-18

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Early Childhood Education

Birth-Kindergarten UNC-Charlotte, Catawba College and
Livingstone College Transfer Program

Related Information:

[Ed General](#) :: [Ed Transfer](#) :: [School-Age Ed - General](#) :: [School-Age Ed - Transfer](#) :: [Infant/Toddler Care](#)

Department: [Health & Public Services Technologies](#)

Award(s) Offered:

A55220TR - [Associate in Applied Science Degree](#)

For additional information regarding this program,
contact **Director Sandra Novick**
Phone: [704-216-3728](tel:704-216-3728) / Email: snovick@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

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

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

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

A criminal background check will be required prior to students entering into EDU 184 and EDU 284. A negative report may prevent students from participating in these required courses which means that the student cannot complete the program requirements. Please contact the Director of Early Childhood Education if you have any questions.

This program is designed for students who intend to transfer to UNC-Charlotte, Catawba College and Livingstone College in the Birth-Kindergarten teaching license program. Students who successfully complete this course of study and who meet the requirements for admission to UNC-Charlotte, Catawba College or Livingstone College are eligible to apply for admission to the major with junior standing.

Requirements are:

- A.A.S. in Early Childhood Associate (A55220TR)
- Cumulative GPA of 2.5 or higher
- Passing scores on all three Praxis I exams (Reading, Writing, Mathematics). For information and registration for PRAXIS, contact www.etc.org/praxis or a counselor in Student Services.
- Grade of C or higher on EDU 119 and EDU 221

Suggested Course Sequence:

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

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)								
	ACA	115	Success and Study Skills	0	2	0	0	1
■	EDU	119	Intro. to Early Childhood Education	4	0	0	0	4
■	EDU	144	Child Development I	3	0	0	0	3
■	EDU	151	Creative Activities	3	0	0	0	3
■	EDU	153	Health, Safety, & Nutrition	3	0	0	0	3
■	EDU	271	Educational Technology	2	2	0	0	3
			Total	15	4	0	0	17
First Year (Spring)								
■	EDU	145	Child Development II	3	0	0	0	3
■	EDU	146	Child Guidance	3	0	0	0	3
	EDU	162	Observation and Assessment	3	0	0	0	3
	ENG	111	Expository Writing	3	0	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
			Total	15	0	0	0	15
First Year (Summer)								
	PSY	150	General Psychology	3	0	0	0	3
	ENG	112	Argument-Based Research	3	0	0	0	3
			OR					
	ENG	113	Literature-Based Research	3	0	0	0	3
			Total	6	0	0	0	6
Second Year (Fall)								
■	EDU	221	Children with Exceptionalities	3	0	0	0	3
	EDU	251	Exploration Activities	3	0	0	0	3
	EDU	259	Curriculum Planning	3	0	0	0	3
■	EDU	280	Language & Literacy Experiences	3	0	0	0	3
	MAT	140	Survey of Mathematics	3	0	0	0	3
			Total	15	0	0	0	15
Second Year (Spring)								
■	EDU	131	Children, Family, & Community	3	0	0	0	3
	EDU	234	Infants, Toddlers, & Twos	3	0	0	0	3
■	EDU	284	Early Childhood Capstone Practicum	1	9	0	0	4
	COM	231	Public Speaking	3	0	0	0	3
	BIO	111	General Biology I	3	3	0	0	4
			OR					
	BIO	140	Environmental Biology	3	0	0	0	3
			AND					
	BIO	140A	Environmental Biology - Lab	0	3	0	0	1
			Total	13	12	0	0	17
*Students transferring to Catawba College are not required to take BIO 140A (lab), only the course BIO140.								
Total Semester Hours Credit (SHC) in Program:								70

■ This is a Core Course and cannot be substituted.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Early Childhood School-Age Education General

Related Information:

[Ed General](#) :: [Ed Transfer](#) :: [School-Age Ed - General](#) :: [School-Age Ed - Transfer](#) :: [Infant/Toddler Care](#)
Department: [Health & Public Services Technologies](#)
Award(s) Offered:

A55440 - [Associate in Applied Science Degree](#)

For additional information regarding this program,
contact **Director Sandra Novick**
Phone: [704-216-3728](tel:704-216-3728) / Email: snovick@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This curriculum prepares individuals to work with children in elementary through middle grades in diverse learning environments. Students will combine learned theories with practice in actual settings with school-age children under the supervision of qualified teachers.

Course work includes child growth/development; computer technology in education; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of school-age populations.

Graduates are prepared to plan and implement developmentally appropriate programs in school-aged environments. Employment opportunities include school-age teachers in child care programs, before/after-school programs, paraprofessional positions in public/private schools, recreational centers, and other programs that work with school-age populations.

A [criminal background check](#) will be required prior to students entering into EDU 285. A negative report may prevent students from participating in these required courses which means that the student cannot complete the program requirements. Please contact the Director of Early Childhood Education Programs if you have any questions.

Suggested Course Sequence:

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

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)								
	ACA	115	Success and Study Skills	0	2	0	0	1
■	EDU	118	Principles & Practices Of Instructional Ass't.	3	0	0	0	3
	EDU	119	Intro to Early Childhood Education	4	0	0	0	4
■	EDU	144	Child Development I	3	0	0	0	3
■	EDU	163	Classroom Management and Instrucion	3	0	0	0	3
■	EDU	271	Educational Technology	2	2	0	0	3

				Total	15	4	0	0	17
First Year (Spring)									
■	EDU	131	Children, Family, & Community	3	0	0	0	0	3
■	EDU	145	Child Development II	3	0	0	0	0	3
	EDU	151	Creative Activities	3	0	0	0	0	3
	EDU	281	Instructional Reading & Writing	2	2	0	0	0	3
	ENG	111	Expository Writing	3	0	0	0	0	3
			Total	14	2	0	0	0	15
First Year (Summer)									
	PSY	150	General Psychology	3	0	0	0	0	3
	ENG	112	Argument-Based Research	3	0	0	0	0	3
			OR						
	ENG	113	Literature-Based Research	3	0	0	0	0	3
			Total	6	0	0	0	0	6
Second Year (Fall)									
	EDU	184PS	Early Childhood Intro.Practicum (Preschool)	1	3	0	0	0	2
			OR						
	EDU	184SA	Early Childhood Intro.Practicum (School-Age)	1	3	0	0	0	2
■	EDU	221	Children with Exceptionalities	3	0	0	0	0	3
	EDU	235	School Age Development & Programs	3	0	0	0	0	3
	EDU	251	Exploration Activities	3	0	0	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	0	3
			Total	13	3	0	0	0	14
Second Year (Spring)									
	EDU	282	Early Childhood Literature	3	0	0	0	0	3
■	EDU	285	Internship Experiences – School Age	1	9	0	0	0	4
■	EDU	289	Advanced Issues / School Age	2	0	0	0	0	2
	COM	231	Public Speaking	3	0	0	0	0	3
	---	---	Mathematics/Natural Sciences Elective**	3	3	0	0	0	3-4
			Total	12	9-12	0	0	0	15-16
Total Semester Hours Credit (SHC) in Program:									67-68

■ **This is a Core Course and cannot be substituted.**

****Mathematics/Natural Sciences Electives: (select 3-4 semester credits from the following):**

		Title	Class	Lab	Clinical	Work Exp.	Credits
AST	111	Descriptive Astronomy AND	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
		OR					
BIO	140	Environmental Biology AND	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
		OR					
PHY	110	Conceptual Physics AND	3	0	0	0	3
PHY	110A	Conceptual Physics - Lab	0	2	0	0	1
		OR					
MAT	140	Survey of Mathematics	3	0	0	0	3

The requirement for meeting basic mathematical computation skills must be met for the Natural Sciences/Mathematics elective. This can be accomplished by receiving an acceptable score on the basic math section of the placement test or successfully completing [MAT 060](#).

[AST 111A](#), [BIO 140A](#) and [PHY 110A](#) are required ONLY for students who plan to transfer the Natural Science course to a four-year college/university.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Early Childhood School-Age Education

Pfeiffer University Elementary Education and Special Education Transfer Program

Related Information:

[Ed General](#) :: [Ed Transfer](#) :: [School-Age Ed - General](#) :: [School-Age Ed - Transfer](#) :: [Infant/Toddler Care](#)

Department: [Health & Public Services Technologies](#)

Award(s) Offered:

A55440TR - [Associate in Applied Science Degree](#)

For additional information regarding this program,
contact **Director Sandra Novick**
Phone: [704-216-3728](tel:704-216-3728) / Email: snovick@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This curriculum prepares individuals to work with children in elementary through middle grades in diverse learning environments. Students will combine learned theories with practice in actual settings with school-age children under the supervision of qualified teachers.

Course work includes child growth/development; computer technology in education; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of school-age populations.

Graduates are prepared to plan and implement developmentally appropriate programs in school-aged environments. Employment opportunities include school-age teachers in child care programs, before/after-school programs, paraprofessional positions in public/private schools, recreational centers, and other programs that work with school-age populations.

A [criminal background check](#) will be required prior to students entering into EDU 285. A negative report may prevent students from participating in these required courses which means that the student cannot complete the program requirements. Please contact the Director of Early Childhood Education Programs if you have any questions.

Suggested Course Sequence:

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

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)								
	ACA	115	Success and Study Skills	0	2	0	0	1
■	EDU	118	Principles & Practices of Instructional Ass't.	3	0	0	0	3
■	EDU	144	Child Development I	3	0	0	0	3
	EDU	151	Creative Activities	3	0	0	0	3
■	EDU	163	Classroom Management and Instrucion	3	0	0	0	3
■	EDU	271	Educational Technology	2	2	0	0	3

				Total	14	4	0	0	16
First Year (Spring)									
■	EDU	131	Children, Family, & Community	3	0	0	0	0	3
■	EDU	145	Child Development II	3	0	0	0	0	3
	EDU	254	Music & Movement	1	2	0	0	0	2
	EDU	281	Instructional Reading & Writing	2	2	0	0	0	3
	ENG	111	Expository Writing	3	0	0	0	0	3
			Total	12	2	0	0	0	14
First Year (Summer)									
	PSY	150	General Psychology	3	0	0	0	0	3
	ENG	114	Professional Research & Reporting	3	0	0	0	0	3
			Total	6	0	0	0	0	6
Second Year (Fall)									
	BIO	111	General Biology I	3	3	0	0	0	4
	EDU	153	Health, Safety & Nutrition	3	0	0	0	0	3
■	EDU	221	Children with Exceptionalities	3	0	0	0	0	3
	HIS	131	American History I	3	0	0	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	0	3
			Total	15	3	0	0	0	16
Second Year (Spring)									
	EDU	157	Active Play	2	2	0	0	0	3
	EDU	282	Early Childhood Literature	3	0	0	0	0	3
■	EDU	285	Internship Experiences – School Age	1	9	0	0	0	4
■	EDU	289	Advanced Issues / School Age	2	0	0	0	0	2
	MAT	140	Survey of Mathematics	3	0	0	0	0	3
			Total	11	11	0	0	0	15
Total Semester Hours Credit (SHC) in Program:									67

■ **This is a Core Course and cannot be substituted.**

****Humanities/Fine Arts Electives (select one course from the following):**

		Title	Class	Lab	Clinical	Work Exp.	Credits
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Early Childhood Infant/Toddler Care

Related Information:

[Ed General](#) :: [Ed Transfer](#) :: [School-Age Ed - General](#) :: [School-Age Ed - Transfer](#) :: [Infant/Toddler Care](#)
Department: [Health & Public Services Technologies](#)
Award(s) Offered:
C55290 - [Certificate Program](#)

For additional information regarding this program,
contact **Director Sandra Novick**
Phone: [704-216-3728](tel:704-216-3728) / Email: snovick@rowancc.edu

Full-Time Faculty Information:

 Please refer to the [Faculty Directory Listing](#).

Description:

The Curriculum prepares individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with young children under the supervision of qualified teachers.

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

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

Infant/Toddler Care Certificate Program (C55290):

	Title	Class	Lab	Clinical	Work Exp.	Credits
Fall Semester						
■	EDU 119 Intro. to Early Childhood Education	4	0	0	0	4
■	EDU 144 Child Development I	3	0	0	0	3
■	EDU 153 Health, Safety, & Nutrition	3	0	0	0	3
	Total	10	0	0	0	10
Spring Semester						
■	EDU 131 Children, Family, & Community	3	0	0	0	3
■	ENG 234 Infants, Toddlers, & Twos	3	0	0	0	3
	Total	6	0	0	0	3
Total Semester Hours Credit (SHC) in Program:						16

 ■ **This is a Core Course and cannot be substituted.**

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LPN to ADN Transition Option

Related Information:

[Practical Nursing \(LPN\)](#) :: [LPN to ADN Transition Option](#) :: [Associate Degree Nursing \(ADN\)](#)

Department: [Health & Public Services Technologies](#)

Award(s) Offered:

A45110C-[Associate in Applied Science Degree](#)

Important Policies:

[ADN Philosophy](#)
[ADN Competency Standards](#)
[ADN Advanced Placement Policy](#)
[ADN Graduation Policy](#)
[NUR Clinical Behavior Policy](#)

For additional information regarding this program, contact **Cathy Norris, Director of Nursing**
 Phone: [704-216-3701](tel:704-216-3701) / Email: [✉](#)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Estimated Cost by Semester:

[Click here](#) to view an "estimated" program cost by semester.

Description:

The NUR curriculum for the LPN to ADN Transition Program starts in the spring semester. Please note dates and deadlines for meeting admission requirements.

Listed below are the guidelines and ADN curriculum NUR course sequence for the licensed practical nurse who is entering in advanced placement standing.

The following Program Admission Requirements are subject to change:

- [Checklist](#) for LPN to ADN Transition Option.
- [Health Information Sessions](#)
 (Part of the admission requirements is attending an information session in your field of interest - **students are required to attend one health information session the year prior to admission.**)
- [Admission Requirements](#) for LPN to ADN Transition Program.

Suggest Course Sequence:

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Spring)							
	ENG	112	Argument Based Research	3	0	0	3
	BIO	169	Anatomy and Physiology II	3	3	0	4
■	NUR	214	Nursing Transition Concepts (1st 8 wks)	3	0	3	4
■	NUR	211 (AB)	Health Care Concepts (2nd 8 weeks)	1.5	0	3	2.5

	PSY	241	Developmental Psychology	3	0	0	0	3
*	COE	110	World of Work	1	0	0	0	1
First Year (Summer)								
■	NUR	211 (BB)	Health Care Concepts	1.5	0	3	0	2.5
■	NUR	113	Family Health Concepts	3	0	6	0	5
*	COE	110	World of Work	1	0	0	0	1
Second Year (Fall)								
	BIO	275	Microbiology	3	3	0	0	4
■	NUR	114	Holistic Health Concepts	3	0	6	0	5
■	NUR	212	Health Care Concepts	3	0	6	0	5
*	COE	110	World of Work	1	0	0	0	1
Second Year (Spring)								
■	NUR	213	Complex Health Concepts	4	3	15	0	10
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
*	COE	110	World of Work	1	0	0	0	1
Total Semester Hours Credit (SHC) in Program:								52

■ **This is a Core Course and cannot be substituted.**

* *Students who select COE 110 may take the course prior to admission or corequisite with a NUR course.*

* **Class sessions and clinical rotations in NUR courses for both day & evening option will be scheduled during weekdays, evenings or weekends.**

Note: For students enrolled in the Associate Degree Nursing and Practical Nursing Program numerical grades below 80 (C) in all required nursing courses and 77 (C) in all non-nursing courses are considered unsatisfactory attainment of course competencies.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Practical Nursing

Related Information:

[Practical Nursing \(LPN\)](#) :: [LPN to ADN Transition Option](#) :: [Associate Degree Nursing \(ADN\)](#)
Department: [Health & Public Services Technologies](#)
Award(s) Offered:

D45660 - [Diploma Program](#)
Important Policies:

[LPN Philosophy](#)
[LPN Competency Standards](#)
[NUR Clinical Behavior Policy](#)

For additional information regarding this program, contact **Cathy Norris, Director of Nursing**
 Phone: [704-216-3701](tel:704-216-3701) / Email: cnorris@rowancc.edu

Full-Time Faculty Information:

 Please refer to the [Faculty Directory Listing](#).

Estimated Cost by Semester: [Click here](#) to view an "estimated" program cost by semester.

Description:

The Practical Nursing curriculum prepares individuals with the knowledge and skills to provide nursing care to children and adults.

Students will participate in assessment, planning, implementing, and evaluating nursing care.

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

The following Program Admission Requirements are subject to change:

- [Checklist](#) for Practical Nursing.
- [Health Information Sessions](#)
 (Part of the admission requirements is attending an information session in your field of interest - **students are required to attend one health information session the year prior to admission.**)
- [Admission Requirements](#) for Practical Nursing.

Practical Nursing Diploma Program (D45660):

			Title	Class	Lab	Clinical	Work Exp.	Credits
Fall Semester								
**	BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
■	NUR	101	Practical Nursing I	7	6	6	0	11
**	PSY	110	Life Span Development	3	0	0	0	3
			Total	14	8	6	0	19

Spring Semester

	ENG	111	Expository Writing	3	0	0	0	3
■	NUR	102	Practical Nursing II	8	0	12	0	12
			Total	11	0	12	0	15

Summer Term

■	NUR	103	Practical Nursing III	6	0	12	0	10
			Total	6	0	12	0	10

Total Semester Hours Credit (SHC) in Program:

44

■ **This is a Core Course and cannot be substituted.**

****Students planning to transfer to the ADN Completion program should take the following:**

[BIO 168](#), [BIO 169](#), [PSY 150](#), [PSY 241](#).

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

Note: For students enrolled in the Associate Degree Nursing and Practical Nursing Programs, numerical grades below 80 (C) in all required nursing courses and 77 (C) in all non-nursing courses are considered unsatisfactory attainment of course competencies.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Radiography

Department: [Health & Public Services Technologies](#)

Award(s) Offered:

A45700 - [Associate in Applied Science Degree](#)

[Admission Requirements](#) | [Mission Statement](#)

For additional information regarding this program, contact **Program Head Frankie Lyons**
Phone: [704-216-3719](tel:704-216-3719) / Email: frankie.lyons@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Radiography curriculum prepares the graduate to be a radiographer, a skilled health care professional who uses radiation to produce images of the human body.

Course work includes clinical rotations to area health care facilities, radiographic exposure, image processing, radiographic procedures, physics, pathology, patient care and management, radiation protection, quality assurance, anatomy and physiology, and radiobiology.

Graduates of accredited programs are eligible to apply to take the American Registry of Radiologic Technologists' national examination for certification and registration as medical radiographers. Graduates may be employed in hospitals, clinics, physicians' offices, medical laboratories, government agencies, and industry.

The following Admission Requirements are subject to change:

- [Checklist](#) for Radiography.
- [Health Information Sessions](#)
(Part of the admission requirements is attending an information session in your field of interest - **students are required to attend one health information session the year prior to admission.**)
- [Admission Requirements](#) for Radiography.

MISSION STATEMENT :

The Radiography program will offer a five semester competency-based education in medical imaging which will prepare all students to successfully provide quality radiographic care and duties to patients, health care consumers, colleagues, employers and all members of the health care team in the college's regional community and beyond.

Program Values

The Radiography program at Rowan-Cabarrus Community College values:

- Compassion
- Clinical Skills
- Knowledge
- Ethical Professionalism
- Service

Program Goals

- Students will be successful with certification exam.
- Students will be competent in clinical practice.

- Students will demonstrate critical thinking in patient interaction.
- Students are committed to lifelong learning.
- Students will demonstrate professional, ethical, and quality care to their employers, regional community, and beyond.

Radiography Degree Program (A45700):

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	BIO	168	Anatomy and Physiology I	3	3	0	4
■	RAD	110	Radiography Intro. & Patient Care	2	3	0	3
■	RAD	111	Radiographic Procedures I	3	3	0	4
■	RAD	151	RAD Clinical Education I	0	0	6	2
	MAT	140	Survey of Mathematics	3	0	0	3
			OR				
	MAT	161	College Algebra	3	0	0	3
			Total	11	9	6	16
First Year (Spring)							
	BIO	169	Anatomy and Physiology II	3	3	0	4
	ENG	111	Expository Writing	3	0	0	3
■	RAD	112	Radiographic Procedures II	3	3	0	4
■	RAD	121	Radiographic Imaging I	2	3	0	3
■	RAD	161	RAD Clinical Education II	0	0	15	5
			Total	11	9	15	19
First Year (Summer)							
■	RAD	122	Radiographic Imaging II	1	3	0	2
■	RAD	131	Radiographic Physics I	1	3	0	2
■	RAD	171	RAD Clinical Education III	0	0	12	4
			Total	2	6	12	8
Second Year (Fall)							
	PSY	150	General Psychology	3	0	0	3
■	RAD	211	Radiographic Procedures III	2	3	0	3
■	RAD	231	Radiographic Physics II	1	3	0	2
■	RAD	241	Radiobiology Protection	2	0	0	2
■	RAD	251	RAD Clinical Education IV	0	0	21	7
			Total	8	6	21	17
Second Year (Spring)							
	COM	231	Public Speaking	3	0	0	3
■	RAD	245	Radiographic Quality Management	1	3	0	2
■	RAD	261	RAD Clinical Education V	0	0	21	7
■	RAD	271	Radiography Capstone	0	3	0	1
	---	---	Humanities/Fine Arts Elective	3	0	0	3
			Total	7	6	21	16
Total Semester Hours Credit (SHC) in Program:							76

- This is a Core Course and cannot be substituted.

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Cosmetology

Related Information:						
Cosmetology	::	Clinic	::	Cosmetology Inst	::	Esthetics Tech
						Esthetics Inst
						Manicuring/Nail Tech
						Manicuring Inst

Department: [Health & Public Services Technologies - Special Programs](#)

Award(s) Offered:

A55140 - [Associate in Applied Science Degree](#)

D55140 - [Diploma Program](#)

C55140 - [Certificate Program](#)

For additional information regarding this program, contact **Program Head Wanda Pressley-Altman**
Phone: [704-216-3927](tel:704-216-3927) / Email: wpressley@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

News Article: 03-03-09 [RCCC students compete for best hairstyle, color](#) (Independent Tribune)

Description:

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

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

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

Program entrance is based on space availability (first come, first serve) on the day of registration. If more than the number of students that can be accepted into the program come at the same time, they will be chosen by application dates obtained by Student Services on the day of registration.

A high school diploma or GED is required or students must be currently in a high school or GED program.

Suggested Course Sequence:

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

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)								
■	COS	111	Cosmetology Concepts I	4	0	0	0	4

■	COS	112	Salon I	0	24	0	0	8
	ENG	111	Expository Writing	3	0	0	0	3
			Total	7	24	0	0	15
First Year (Spring)								
■	COS	113	Cosmetology Concepts II	4	0	0	0	4
■	COS	114	Salon II	0	24	0	0	8
	SOC	210	Introduction to Sociology	3	0	0	0	3
			Total	7	24	0	0	15
First Year (Summer)								
■	COS	115	Cosmetology Concepts III	4	0	0	0	4
■	COS	116	Salon III	0	12	0	0	4
	MAT	140	Survey of Mathematics	3	0	0	0	3
			OR					
	BIO	140	Environmental Biology	3	0	0	0	3
			Total	7	12	0	0	11
Second Year (Fall)								
■	COS	117	Cosmetology Concepts IV	2	0	0	0	2
■	COS	118	Salon IV	0	21	0	0	7
	BUS	280	REAL Small Business	4	0	0	0	4
			Total	6	21	0	0	13
Second Year (Spring)								
	CIS	110	Introduction to Computers	2	2	0	0	3
	COM	231	Public Speaking	3	0	0	0	3
	COS	223	Contemporary Hair Coloring	1	3	0	0	2
	COS	240	Contemporary Design	1	3	0	0	2
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
			Total	10	8	0	0	13
Total Semester Hours Credit (SHC) in Program:								67

Cosmetology Diploma Program (D55140):

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)								
■	COS	111	Cosmetology Concepts I	4	0	0	0	4
■	COS	112	Salon I	0	24	0	0	8
	ENG	102	Applied Communications II	3	0	0	0	3
			Total	7	24	0	0	15
First Year (Spring)								
■	COS	113	Cosmetology Concepts II	4	0	0	0	4
■	COS	114	Salon II	0	24	0	0	8
	PSY	101	Applied Psychology	3	0	0	0	3
			OR					
	PSY	118	Interpersonal Psychology	3	0	0	0	3
			OR					
	SOC	100	Concept in Sociology	3	0	0	0	3
			Total	7	24	0	0	15
First Year (Summer)								
■	COS	115	Cosmetology Concepts III	4	0	0	0	4
■	COS	116	Salon III	0	12	0	0	4
			Total	4	12	0	0	8
Second Year (Fall)								
■	COS	117	Cosmetology Concepts IV	2	0	0	0	2
■	COS	118	Salon IV	0	21	0	0	7
			Total	2	21	0	0	9

Total Semester Hours Credit (SHC) in Program:

47

■ This is a Core Course and cannot be substituted.

Cosmetology Certificate Program (C55140):

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
■	COS	111	Cosmetology Concepts I	4	0	0	4
■	COS	112	Salon I	0	24	0	8
			Total	4	24	0	12
First Year (Spring)							
■	COS	113	Cosmetology Concepts II	4	0	0	4
■	COS	114	Salon II	0	24	0	8
			Total	4	24	0	12
First Year (Summer)							
■	COS	115	Cosmetology Concepts III	4	0	0	4
■	COS	116	Salon III	0	12	0	4
			Total	4	12	0	8
Total Semester Hours Credit (SHC) in Program:							32

■ This is a Core Course and cannot be substituted.

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Cosmetology Instructor

Related Information:												
Cosmetology	::	Clinic	::	Cosmetology Inst	::	Esthetics Tech	::	Esthetics Inst	::	Manicuring/Nail Tech	::	Manicuring Inst

Department: [Health & Public Services Technologies - Special Programs](#)

Award(s) Offered:

C55160 - [Certificate Program](#)

For additional information regarding this program, contact **Program Head Wanda Pressley-Altman**
Phone: [704-216-3927](tel:704-216-3927) / Email: wpressley@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

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

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

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

Applicants to this program must have a current North Carolina Cosmetologist License and six months' experience as a licensed cosmetologist.

Cosmetology Instructor Certificate Program (C55160):

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Semester								
■	COS	271	Instructor Concepts I	5	0	0	0	5
■	COS	272	Instructor Practicum I	0	21	0	0	7
			Total	5	21	0	0	12
Second Semester								
■	COS	273	Instructor Concepts II	5	0	0	0	5
■	COS	274	Instructor Practicum II	0	21	0	0	7
			Total	5	21	0	0	12
Total Semester Hours Credit (SHC) in Program:								24

■ This is a Core Course and cannot be substituted.

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Esthetics Instructor

Related Information:												
Cosmetology	::	Clinic	::	Cosmetology Inst	::	Esthetics Tech	::	Esthetics Inst	::	Manicuring/Nail Tech	::	Manicuring Inst

Department: [Health & Public Services Technologies - Special Programs](#)

Award(s) Offered:

C55270 - [Certificate Program](#)

For additional information regarding this program, contact **Program Head Wanda Pressley-Altman**
Phone: [704-216-3927](tel:704-216-3927) / Email: [✉](mailto:wpressley@rowancc.edu)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

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

Course work includes all phases of esthetics theory laboratory instruction.

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

Applicants to this program must have a current North Carolina Esthetician or Cosmetologist license and six months experience as a licensed esthetician or cosmetologist.

Evidence of high school completion or GED is recommended.

Esthetics Instructor Certificate Program:

Title				Class	Lab	Clinical	Work Exp.	Credits
First Semester								
■	COS	253	Esthetics Instructor Concepts I	6	15	0	0	11
Total				6	15	0	0	11
Second Semester								
■	COS	254	Esthetics Instructor Concepts II	6	15	0	0	11
Total				6	15	0	0	11
Total Semester Hours Credit (SHC) in Program:								22

■ This is a Core Course and cannot be substituted.

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Esthetics Technology

Related Information:												
Cosmetology	::	Clinic	::	Cosmetology Inst	::	Esthetics Tech	::	Esthetics Inst	::	Manicuring/Nail Tech	::	Manicuring Inst

Department: [Health & Public Services Technologies - Special Programs](#)

Award(s) Offered:

C55230 - [Certificate Program](#)

For additional information regarding this program, contact **Program Head Wanda Pressley-Altman**
Phone: [704-216-3927](tel:704-216-3927) / Email: wpressley@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Esthetics Technology curriculum provides competency-based knowledge, scientific/artistic principles and hands-on fundamentals associated with the art of skin care.

The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

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

Graduates should be prepared to take the North Carolina State Board of Cosmetic Art Esthetics 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.

A high school diploma or GED is required, or student must be currently enrolled in a high school or GED program.

Esthetics Technology Certificate Program (C55230):

	Title	Class	Lab	Clinical	Work Exp.	Credits
First Semester						
■ COS 119	Esthetics Concepts I	2	0	0	0	2
■ COS 120	Esthetics Salon I	0	18	0	0	6
	Total	2	18	0	0	8
Second Semester						
■ COS 125	Esthetics Concepts II	2	0	0	0	2
■ COS 126	Esthetics Salon II	0	18	0	0	6
	Total	2	18	0	0	8
Total Semester Hours Credit (SHC) in Program:						16

■ **This is a Core Course and cannot be substituted.**

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Manicuring/Nail Technology

Related Information:												
Cosmetology	::	Clinic	::	Cosmetology Inst	::	Esthetics Tech	::	Esthetics Inst	::	Manicuring/Nail Tech	::	Manicuring Inst

Department: [Health & Public Services Technologies - Special Programs](#)

Award(s) Offered:

C55400 - [Certificate Program](#)

For additional information regarding this program, contact **Program Head Wanda Pressley-Altman**
Phone: [704-216-3927](tel:704-216-3927) / Email: wpressley@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

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

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

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



Manicuring/Nail Technology Certificate Program (C55400):

	Title	Class	Lab	Clinical	Work Exp.	Credits
First 8 Weeks						
■ COS 121	Manicure/Nail Technology I	4	6	0	0	6
Second 8 Weeks						
■ COS 222	Manicure/Nail Technology II	4	6	0	0	6
	Total	8	12	0	0	12
Total Semester Hours Credit (SHC) in Program:						12

■ **This is a Core Course and cannot be substituted.**

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Manicuring Instructor

Related Information:						
Cosmetology	::	Clinic	::	Cosmetology Inst	::	Esthetics Tech
						Esthetics Inst
						Manicuring/Nail Tech
						Manicuring Inst

Department: [Health & Public Services Technologies - Special Programs](#)

Award(s) Offered:

C55380 - [Certificate Program](#)

For additional information regarding this program, contact **Program Head Wanda Pressley-Altman**
Phone: [704-216-3927](tel:704-216-3927) / Email: wpressley@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

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

Course work includes all phases of manicuring theory laboratory instruction.

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

Manicuring Instructor Certificate Program (C55380):

			Title	Class	Lab	Clinical	Work Exp.	Credits
■	COS	251	Manicuring Instructor Concepts	8	0	0	0	8
■	COS	252	Manicuring Instructor Practicum	0	15	0	0	5
Total				8	15	0	0	13
Total Semester Hours Credit (SHC) in Program:								13

■ **This is a Core Course and cannot be substituted.**

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2009-10

Programs of Study

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Air Conditioning, Heating & Refrigeration Technology

Department: [Industrial & Engineering Technologies](#)

Watch our Video!

For additional information regarding this program,
contact **Program Head Joe Christie**
Phone: [704-216-3908](tel:704-216-3908) / Email: [✉](#)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Please check out the AHR advising page on RCCC's [BlackBoard website](#). The username is **rgcc.ahr** and the password is **ahr**.

Once you login, click on the "**AHR-Advising-Information**" link
under My Organizations.

If you are a new student, please click on the "new student" tab.

Award(s) Offered:

A35100 - [Associate in Applied Science Degree](#)

D35100 - [Diploma Program](#)

C35100 - [Certificate Programs](#)

Description:

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the A.A.S. degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. A.A.S. degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

Suggested Course Sequence:

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

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)								
	ACA	115	Success & Study Skills	0	2	0	0	1
■	AHR	110	Introduction to Refrigeration	2	6	0	0	5

■	AHR	111	HVACR Electricity	2	2	0	0	3
■	AHR	112	Heating Technology	2	4	0	0	4
			Total	6	14	0	0	13
First Year (Spring)								
■	AHR	113	Comfort Cooling	2	4	0	0	4
	AHR	115	Refrigeration Systems	1	3	0	0	2
	AHR	130	HVAC Controls	2	2	0	0	3
	CIS	110	Introduction to Computers	2	2	0	0	3
			Total	7	11	0	0	12
First Year (Summer)								
■	AHR	114	Heat Pump Technology	2	4	0	0	4
	AHR	160	Refrigerant Certification	1	0	0	0	1
■	AHR	211	Residential System Design	2	2	0	0	3
■	AHR	220	Commercial Building Codes	2	0	0	0	2
			Total	7	6	0	0	10
Second Year (Fall)								
■	AHR	212	Advanced Comfort Systems	2	6	0	0	4
	AHR	151	HVAC Duct Systems I	1	3	0	0	2
	BUS	230	Small Business Management	3	0	0	0	3
	ENG	111	Expository Writing	3	0	0	0	3
	MAT	115	Mathematical Models	2	2	0	0	3
			OR					
	PHY	110	Conceptual Physics	3	0	0	0	3
			Total	11-12	9-11	0	0	15
Second Year (Spring)								
	AHR	215	Commercial HVACR Controls	1	3	0	0	2
	AHR	255	Indoor Air Quality	1	2	0	0	2
	ENG	114	Professional Research & Reporting	3	0	0	0	3
			OR					
	COM	231	Public Speaking	3	0	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
	---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
			Total	11	5	0	0	13
Second Year (Summer)								
	AHR	180	HVACR Customer Relations	1	0	0	0	1
			OR					
	COE	111	Co-op Work Experience I	0	0	0	10	1
■	AHR	225	Commercial System Design	2	3	0	0	3
	AHR	235	Refrigeration Design	2	2	0	0	3
	AHR	250	HVAC System Diagnostics	0	4	0	0	2
			OR					
	COE	112	Co-op Work Experience I	0	0	0	20	2
			Total	4-5	5-9	0	0-20	9
Total Semester Hours Credit (SHC) in Program:								72

■ This is a Core Course and cannot be substituted.

AHR Diploma Programs (D35100)

Courses			Credit Hours
AHR	110	Introduction to Refrigeration	5

Programs of Study			
AHR	110	Introduction to Refrigeration	5
AHR	111	HVACR Electricity	3
AHR	112	Heating Technology	4
AHR	113	Comfort Cooling	4
AHR	115	Refrigeration System	2
AHR	130	HVAC Controls	3
AHR	151	HVAC Duct Systems I	2
AHR	160	Refrigerant Certification	1
AHR	180	HVACR Customer Relations	1
OR			
COE	111	Co-op Work Experience I	1
AHR	114	Heat Pump Technology	4
AHR	211	Residential System Design	3
AHR	220	Commercial Building Codes	2
CIS	110	Introduction To Computers	3
ENG	111	Expository Writing	3
OR			
ENG	102	Applied Communication II	3
---	---	General Education Electives	3
Total Semester Hours Credit:			43

AHR Certificate Programs (C35100)

Courses			Credit Hours
Basic Certificate (C35100BA)			
AHR	110	Introduction to Refrigeration	5
AHR	111	HVACR Electricity	3
AHR	112	Heating Technology	4
AHR	151	HVAC Duct Systems I	2
Total Semester Hours Credit:			14
Comfort Cooling Certificate (C35100CC)			
AHR	113	Comfort Cooling	4
AHR	114	Heat Pump Technology	4
AHR	130	HVAC Controls	3
AHR	211	Residential System Design	3
Total Semester Hours Credit:			14
Refrigeration Certificate (C35100RF)			
AHR	110	Introduction to Refrigeration	5
AHR	115	Refrigeration Systems	2
AHR	160	Refrigerant Certification	1
AHR	220	Commercial Building Codes	2
AHR	235	Refrigeration Design	3
Total Semester Hours Credit:			13
Commercial Certificate (C35100CO)			
AHR	160	Refrigerant Certification	1
AHR	212	Advanced Comfort Systems	4
AHR	215	Commercial HVACR Controls	2
AHR	220	Commercial Building Codes	2

AHR	225	Commercial System Design	3
AHR	255	Indoor Air Quality	2
Total Semester Hours Credit:			14

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Automotive Systems Technology

Department: Industrial & Engineering Technologies

Award(s) Offered:

- A60160 - [Associate in Applied Science Degree](#)
 D60160 - [Diploma Program](#)
 C60160 - [Certificate Programs](#)

For additional information regarding this program,
 contact **Program Head Wade Vernon**
 Phone: [704-216-3924](tel:704-216-3924) / Email: [✉](#)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

NEWS: RCCC Automotive Students Perform Well
 at State Skills Competition (04-24-08) ... [more](#)

Description:

The Automotive Systems Technology curriculum prepares individuals for employment as automotive service technicians. It provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field.

Classroom and lab experiences integrate technical and academic coursework. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/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 shops in the automotive service industry.

Students must furnish hand tools and protective clothing, as well as textbooks, and may obtain this list from the Automotive Systems Technology program head or Student Services.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
	AUT 110	Introduction to Automotive Technology	2	2	0	0	3
	AUT 116	Engine Repair	2	3	0	0	3
	AUT 116A	Engine Repair - Lab	0	3	0	0	1
■	AUT 161	Basic Automotive Electricity	4	3	0	0	5
		Total	8	13	0	0	13
First Year (Spring)							
■	AUT 141	Suspension & Steering Systems	2	3	0	0	3
	AUT 141A	Suspension & Steering - Lab	0	3	0	0	1
■	AUT 151	Brake Systems	2	3	0	0	3
	AUT 151A	Brake Systems - Lab	0	3	0	0	1

AUT	181A	Brake Systems - Lab	0	3	0	0	1
■ AUT	181	Engine Performance I	2	3	0	0	3
AUT	181A	Engine Performance I -Lab	0	3	0	0	1
---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
---	---	COE Coursework*					
Total			9	18	0	0	15

First Year (Summer)

AUT	171	Automotive Climate Control	2	4	0	0	4
■ AUT	183	Engine Performance II	2	6	0	0	4
AUT	186	PC Skills for Auto Techs	2	2	0	0	3
---	---	COE Coursework*					
Total			6	12	0	0	11

Second Year (Fall)

AUT	163	Advanced Automotive Electricity	2	3	0	0	3
AUT	163A	Advanced Automotive Electricity - Lab	0	3	0	0	1
AUT	231	Manual Trans/Axles/Drivetrains	2	3	0	0	3
AUT	231A	Manual Trans/Axles/Drivetrains - Lab	0	3	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
MAT	115	Mathematical Models	2	2	0	0	3
---	---	COE Coursework*					
Total			9	14	0	0	14

Second Year (Spring)

AUT	221	Automatic Transmission/Transaxles	2	3	0	0	3
AUT	221A	Automatic Transmission/Transaxles - Lab	0	3	0	0	1
COM	231	Public Speaking	3	0	0	0	3
PHY	110	Conceptual Physics	3	0	0	0	3
PHY	110A	Conceptual Physics - Lab	0	2	0	0	1
---	---	Humanities/Fine Arts Elective	3	0	0	0	3
---	---	COE Coursework*					
Total			11	8	0	0	14

Second Year (Summer)

AUT	113	Automotive Servicing	0	6	0	0	2
		OR					
AUT	285	Introduction to Alternative Fuels	2	2	0	0	3
		OR					
COE	112	Co-Op Work Experience I*	0	0	0	20	2
Total			0-2	0-6	0	0-20	2-3

Total Semester Hours Credit (SHC) in Program:**69-70**■ **This is a Core Course and cannot be substituted.**

* Students may take either AUT 113 or COE 112 in the second year summer term. If students choose to co-op throughout the course sequence instead of taking AUT 113 or COE 112, they may choose 2 SHC from the following COE coursework:

		Title	Class	Lab	Clinical	Work Exp.	Credits
COE	111	Co-Op Experience I	0	0	0	10	1
COE	121	Co-Op Experience II	0	0	0	10	1

Automotive Systems Technology Diploma Program (D60160)

		Title	Class	Lab	Clinical	Work Exp.	Credits
Fall Semester							
AUT	110	Introduction to Automotive Technology	2	2	0	0	3
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair - Lab	0	3	0	0	1
■ AUT	161	Basic Automotive Electricity	4	3	0	0	5
---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
Total			11	11	0	0	15

Spring Semester							
■	AUT	141	Suspension & Steering Systems	2	3	0	3
	AUT	141A	Suspension & Steering - Lab	0	3	0	1
■	AUT	151	Brake Systems	2	3	0	3
	AUT	151A	Brake Systems - Lab	0	3	0	1
■	AUT	181	Engine Performance I	2	3	0	3
	AUT	181A	Engine Performance I -Lab	0	3	0	1
	ENG	111	Expository Writing	3	0	0	3
Total				9	18	0	15
Summer Term							
	AUT	171	Automotive Climate Control	2	4	0	4
■	AUT	183	Engine Performance II	2	6	0	4
Total				4	10	0	8
Total Semester Hours Credit (SHC) in Program:							38

■ This is a Core Course and cannot be substituted.

Automotive Systems Technology Certificate Programs (C60160)

Courses				Credit Hours
Brakes Certificate (C60160BR)				
AUT	151	Brake Systems		3
AUT	151A	Brake Systems - Lab		1
AUT	161	Basic Automotive Electricity		5
AUT	163	Advanced Automotive Electricity		3
AUT	163A	Advanced Automotive Electricity - Lab		1
Total Semester Hours Credit:				13
Electrical & Electronics Certificate (C60160EE)				
AUT	161	Basic Automotive Electricity		5
AUT	163	Advanced Automotive Electricity		3
AUT	163A	Advanced Automotive Electricity - Lab		1
AUT	186	PC Skills for Auto Techs		3
Total Semester Hours Credit:				12
Engine Performance & Engine Repair Certificate (C60160EP)				
AUT	116	Engine Repair		3
AUT	116A	Engine Repair - Lab		1
AUT	181	Engine Performance I		3
AUT	181A	Engine Performance I -Lab		1
AUT	183	Engine Performance II		4
Total Semester Hours Credit:				12
Suspension & Steering Certificate (C60160SS)				
AUT	141	Suspension & Steering Systems		3
AUT	141A	Suspension & Steering - Lab		1
AUT	151	Brake Systems		3
AUT	151A	Brake Systems - Lab		1
AUT	161	Basic Automotive Electricity		5
Total Semester Hours Credit:				13
Heating & Air Conditioning Certificate (C60160HA)				
AUT	110	Introduction to Automotive Technology		3

AUT	113	Automotive Servicing	2
		OR	
COE	112	Co-Op Work Experience I	2
AUT	161	Basic Automotive Electricity	5
AUT	171	Automotive Climate Control	4
Total Semester Hours Credit:			14
Automatic Transmission Certificate (C60160AT)			
AUT	110	Introduction to Automotive Technology	3
AUT	113	Automotive Servicing	2
		OR	
COE	112	Co-Op Work Experience I	2
AUT	221	Automatic Transmission/Transaxles	3
AUT	221A	Automatic Transmission/Transaxles - Lab	1
AUT	161	Basic Automotive Electricity	5
Total Semester Hours Credit:			14
Manual Drive Train & Axles Certificate (C60160MD)			
AUT	110	Introduction to Automotive Technology	3
AUT	113	Automotive Servicing	2
		OR	
COE	112	Co-Op Work Experience I	2
AUT	161	Basic Automotive Electricity	5
AUT	231	Manual Trans/Axles/Drivetrains	3
AUT	231A	Manual Trans/Axles/Drivetrains - Lab	1
Total Semester Hours Credit:			14

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Construction Management Technology

Department:

[Industrial & Engineering Technologies](#)

Award(s) Offered:

- A35190 - [Associate in Applied Science Degree](#)
 D35190 - [Diploma Program](#)
 C35190 - [Certificate Programs](#)

Please check out the CMT advising page on RCCC's [BlackBoard website](#).

The username is **rgcc.cmt** and the password is **cmt**.
 Once you login, click on the "**Construction Management Technology Advising Information**" link under My Organizations.

If you are a new student, please click on the "new student" tab.

For additional information regarding this program, contact **Program Head Kao Vang**
 Phone: [704-216-3903](tel:704-216-3903) / Email: [✉](mailto:kao.vang@rgcc.edu)

Full-Time Faculty Information: Please refer to the [Faculty Directory Listing](#).

Description:

This curriculum is designed to prepare individuals for careers in the construction management field. Such positions may include project manager, superintendent, estimator, or foreman.

Course work includes safety, planning, scheduling, cost control, productivity, human relations, estimating, and building codes. Students will also gain proficiency in specific construction related skills.

Graduates should qualify for entry-level positions in the field of construction management.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
■	CIS 110	Introduction to Computers	2	2	0	0	3
■	CMT 210	Profess. Construction Supervision	3	0	0	0	3
■	CMT 212	Total Safety Performance	3	0	0	0	3
	ENG 111	Expository Writing	3	0	0	0	3
	MAT 121	Algebra/Trigonometry I	2	2	0	0	3
		Total	13	6	0	0	16
First Year (Spring)							
■	ACC 120	Principles of Financial Accounting	3	2	0	0	4
■	RDP 130	Blueprint Reading/Construction	1	2	0	0	2

---	---	100	Blueprint Reading/Construction	1	2	0	0	2
■	CST	241	Planning/Estimating I	2	2	0	0	3
	ENG	114	Professional Research & Reporting	3	0	0	0	3
	---	---	Technical Elective*	2-5	2-6	0	0	3-5
Total				11-14	8-12	0	0	15-17
First Year (Summer)								
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
	---	---	Technical Elective*	1-3	2-5	0	0	2-2
Total				4-6	2-5	0	0	5-6
Second Year (Fall)								
■	CMT	214	Planning and Scheduling	3	0	0	0	3
■	CMT	216	Cost and Productivity	3	0	0	0	3
■	SPA	120	Spanish for the Workplace	3	0	0	0	3
	COE	112	Co-op Work Experience I	0	0	0	20	2
	---	---	Social/Behavioral Science Elective	3	0	0	0	3
	---	---	Technical Elective*	2-5	2-6	0	0	3-5
Total				14-17	2-6	0	20	17-19
Second Year (Spring)								
■	CIV	230	Construction Estimating	2	3	0	0	3
■	CMT	218	Human Relations Issues	3	0	0	0	3
	COE	122	Co-op Work Experience II	0	0	0	20	2
	---	---	Technical Elective*	7-10	2-6	0	0	7-10
Total				12-15	5-9	0	20	15-18
Total Semester Hours Credit (SHC) in Program:								68

■ **This is a Core Course and cannot be substituted.**

*Technical Electives:

Select 8 or 9 SHC from one area of specialization, and an additional 6 or 7 SHC from another area of specialization, for a total of 15 SHC of technical electives. Students who anticipate transfer to a four-year university may select more than 9 hours from the Civil Engineering Technology Option and should take MAT 122 in addition to the 68 SHC required for graduation.

			Title	Class	Lab	Clinical	Work Exp.	Credits
Air Conditioning, Heating and Refrigeration:								
AHR	110		Introduction to Refrigeration	2	6	0	0	5
AHR	111		HVACR Electricity	2	2	0	0	3
AHR	112		Heating Technology	2	4	0	0	4
AHR	113		Comfort Cooling	2	4	0	0	4
AHR	130		HVAC Controls	2	2	0	0	3
Electrical:								
ELC	113		Basic Wiring I	2	6	0	0	4
ELC	117		Motors and Controls	2	6	0	0	4
ELC	118		National Electrical Code	1	2	0	0	2
ELC	125		Diagrams and Schematics	1	2	0	0	2
ELC	138		DC Circuit Analysis	2	3	0	0	3
Welding:								
WLD	112		Basic Welding Processes	1	3	0	0	2
WLD	115		SMAW (Stick) Plate	2	9	0	0	5
WLD	121		GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	131		GTAW (TIG) Plate	2	6	0	0	4
WLD	141		Symbols & Specifications	2	2	0	0	3
Civil Engineering Technology:								
CIV	110		Statics/Strength of Materials	2	6	0	0	4
CIV	210		Engineering Materials	1	3	0	0	2
CIV	240		Project Management	2	3	0	0	3
CIV	110		Statics/Strength of Materials	2	6	0	0	4

SRV	110	Surveying I	2	6	0	0	4
EGR	115	Introduction to Technology	2	3	0	0	3
CSC	134	C++ Programming	2	3	0	0	3

Construction Management Technology Diploma Program (D35190)

Courses				Credits	Hours
■	ACC	120	Principles of Financial Accounting	4	
■	BPR	130	Blueprint Reading/Construction	2	
■	CIS	110	Introduction to Computers	3	
■	CIV	230	Construction Estimating	3	
■	CMT	210	Profess. Construction Supervision	3	
■	CMT	212	Total Safety Performance	3	
■	CMT	214	Planning and Scheduling	3	
■	CMT	216	Cost and Productivity	3	
■	CMT	218	Human Relations Issues	3	
■	CST	241	Planning/Estimating I	3	
	ENG	102	Applied Communications II	3	
			(or ENG 111 Expository Writing)		
	MAT	121	Algebra/Trigonometry I	3	
■	SPA	120	Spanish for the Workplace	3	
Total Semester Hours Credit:				39	

■ This is a Core Course and cannot be substituted.

Construction Management Technology Certificate Programs (C35190)

Courses				Credit	Hours
Basic Certificate (C35190BA)					
BPR	130	Blueprint Reading/Construction		2	
CIS	110	Introduction to Computers		3	
CMT	210	Profess. Construction Supervision		3	
CMT	212	Total Safety Performance		3	
SPA	120	Spanish for the Workplace		3	
Total Semester Hours Credit:				14	
Intermediate Certificate (C35190IN)					
CMT	214	Planning and Scheduling		3	
CMT	216	Cost and Productivity		3	
CMT	218	Human Relations Issues		3	
CST	241	Planning/Estimating I		3	
Total Semester Hours Credit:				12	
Project Supervision Certificate (C35190PS)					
CMT	210	Profess. Construction Supervision		3	
CMT	212	Total Safety Performance		3	
CMT	214	Planning and Scheduling		3	
CMT	216	Cost and Productivity		3	
CMT	218	Human Relations Issues		3	
COE	112	Co-op Work Experience I		2	
Total Semester Hours Credit:				17	

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Electrical/Electronics Technology "Electrical Technology"

Department: Industrial & Engineering Technologies

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For additional information regarding this program,
contact **Program Head Tony Deyton**
Phone: [704-216-3916](tel:704-216-3916) / Email: tony.deyton@rowancc.edu

Full-Time Faculty Information:
Please refer to the [Faculty Directory Listing](#).

Award(s) Offered:

- A35220 - [Associate in Applied Science Degree](#)
- D35220 - [Diploma Program](#)
- C35220 - [Certificate Programs](#)

Description:

The Electrical/Electronics Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical/electronic systems found in residential, commercial, and industrial facilities.

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

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

Suggested Course Sequence:

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

	Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)						
ACA 115	Success and Study Skills	0	2	0	0	1
■ ELC 112	DC/AC Electricity	3	6	0	0	5
■ ELC 113	Basic Wiring I	2	6	0	0	4
ELC 118	National Electrical Code	1	2	0	0	2
ELC 126	Electrical Computations	2	2	0	0	3
Total		8	18	0	0	15
First Year (Spring)						
■ CIS 110	Introduction to Computers	2	2	0	0	2

■	CIS	110	Introduction to Computers	2	2	0	0	3
■	ELC	117	Motors & Controls	2	6	0	0	4
	ELC	125	Diagrams & Schematics	1	2	0	0	2
	ENG	111	Expository Writing	3	0	0	0	3
	---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
Total				11	10	0	0	15

First Year (Summer)

■	ELC	115	Industrial Wiring	2	6	0	0	4
	ELC	119	NEC Calculations	1	2	0	0	2
■	ELC	128	Introduction to PLC	2	3	0	0	3
Total				5	11	0	0	9

Second Year (Fall)

	ELC	228	PLC Applications	2	6	0	0	4
■	ELN	131	Semiconductor Applications	3	3	0	0	4
	ENG	114	Professional Research & Reporting	3	0	0	0	3
	MAT	121	Algebra/Trigonometry I	2	2	0	0	3
	---	---	Major Elective*	0-2	0-3	0	0-30	2
Total				10-12	11-14	0	0-30	16

Second Year (Spring)

	ELC	215	Electrical Maintenance	2	3	0	0	3
	ELN	133	Digital Electronics	3	3	0	0	4
	MAT	122	Algebra/Trigonometry II	2	2	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
	---	---	Major Elective*	0-2	0-3	0-3	0-30	2
Total				10-12	8-11	0-3	0-30	15

Total Semester Hours Credit (SHC) in Program:

70

■ This is a Core Course and cannot be substituted.

***Major Electives:**

Select 4 semester hour credits from the following courses. This may include up to 4 SHC from COE course/combination of courses.

		Title	Class	Lab	Clinical	Work Exp.	Credits
DFT	151	CAD I	2	3	0	0	3
ELN	150	CAD for Electronics	1	3	0	0	2
ISC	112	Industrial Safety	2	0	0	0	2
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

Electrical/Electronics Technology Diploma Program (D35220)

Courses				Credit Hours
	CIS	110	Introduction to Computers	3
	ENG	102	Applied Communications II	3
■	ELC	112	DC/AC Electricity	5
	ELC	113	Basic Wiring I	4
■	ELC	115	Industrial Wiring	4
■	ELC	117	Motors & Controls	4
	ELC	118	National Electrical Code	2
	ELC	119	NEC Calculations	2
	ELC	125	Diagrams & Schematics	2
	ELC	126	Electrical Computations	3

Electrical/Computer			
ELC	128	Introduction to PLC	3
PSY	101	Applied Psychology	3
Total Semester Hours Credit:			38

■ This is a Core Course and cannot be substituted.

Electrical/Electronics Technology Certificate Programs (C35220)

Courses			Credit Hours
Industrial Motor Control Certificate (C35220MO)			
ELC	112	DC/AC Electricity	5
ELC	117	Motors & Controls	4
ELC	125	Diagrams & Schematics	2
ELC	126	Electrical Computations	3
ELC	128	Introduction to PLC	3
Total Semester Hours Credit:			17
Wiring and the NEC Certificate (C35220NE)			
ELC	113	Basic Wiring I	4
ELC	115	Industrial Wiring	4
ELC	118	National Electrical Code	2
ELC	119	NEC Calculations	2
Total Semester Hours Credit:			12

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Electronics Engineering Technology

Department: [Industrial & Engineering Technologies](#)

Award(s) Offered:

A40200 - [Associate in Applied Science Degree](#)

For additional information regarding this program, contact **Program Head Michele Chance**
Phone: [704-216-3905](tel:704-216-3905) / Email: mchance@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

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

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

Students who desire to pursue a BS degree in any engineering technology field are strongly recommended to: (a) Substitute [MAT 175](#) for [MAT 121](#), (b) Select [SOC 210](#) and [HUM 211](#) for the Social/Behavioral Sciences and Humanities/Fine Arts electives and (c) Substitute [PHY 151](#) and [152](#) for [PHY 131](#) and [132](#).

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
	CIS 110	Introduction to Computers	2	2	0	0	3
■	ELC 138	DC Circuit Analysis	2	3	0	0	3
■	ELC 139	AC Circuit Analysis	2	3	0	0	3
	ELN 150	CAD for Electronics	1	3	0	0	2
		Total	7	13	0	0	12
First Year (Spring)							
■	ELN 131	Semiconductor Applications	3	3	0	0	4
■	ELN 133	Digital Electronics	3	3	0	0	4
	ENG 111	Expository Writing	3	0	0	0	3
	MAT 121	Algebra/Trigonometry I	3	0	0	0	3

MAT	121	Algebra/Trigonometry I	2	2	0	0	3
---	---	Humanities/Fine Arts Elective	3	0	0	0	3
Total			14	8	0	0	17
First Year (Summer)							
ELN	132	Linear IC Applications	3	3	0	0	4
■ ELN	232	Introduction to Microprocessors	3	3	0	0	4
---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
Total			9	6	0	0	11
Second Year (Fall)							
CSC	134	C++ Programming	2	3	0	0	3
ELN	229	Industrial Electronics	2	4	0	0	4
ELN	234	Communication Systems	3	3	0	0	4
MAT	122	Algebra/Trigonometry II	2	2	0	0	3
PHY	131	College Physics - Mechanics	3	2	0	0	4
Total			13	13	0	0	18
Second Year (Spring)							
EGR	285	Design Project	0	4	0	0	2
ELN	135	Electronic Circuits	2	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
PHY	132	Physics – Electricity & Magnetism	3	2	0	0	4
---	---	Major Elective*	0-2	0-3	0	0-30	3
Total			8-10	9-12	0	0-30	15
Total Semester Hours Credit (SHC) in Program:							73

■ This is a Core Course and cannot be substituted.

*Major Electives:

Select 3 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses.

		Title	Class	Lab	Clinical	Work Exp.	Credits
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1
ELC	128	Introduction to PLC	2	3	0	0	3
ELN	237	Local Area Networks	2	3	0	0	3

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Fire Protection Technology

Department: [Industrial & Engineering Technologies](#)

Award(s) Offered:

A55240CP - [Associate in Applied Science Degree](#)

(Cooperative Transfer Program Offered in Cooperation with Central Piedmont Community College)

For additional information regarding this program,
contact **Program Head Franklin Merrell**
Phone: [704-216-3920](tel:704-216-3920) / Email: merrellf@cpcc.edu

CPCC Program Chair: [704-330-4636](tel:704-330-4636)

The Fire Protection Technology curriculum is designed to provide individuals with technical and professional knowledge to make decisions regarding fire protection for both public and private sectors. It also provides a sound foundation for continuous higher learning in fire protection, administration, and management.

Coursework includes classroom and laboratory exercises to introduce the student to various aspects of fire protection. Students will learn technical and administrative skills such as hydraulics, hazardous materials, arson investigation, fire protection safety, fire suppression management, law, and codes.

Graduates should qualify for employment or advancement in governmental agencies, industrial firms, insurance rating organizations, educational organizations, and municipal fire departments. Employed persons should have opportunities for skilled and supervisory-level positions within their current organizations.

RCCC has a transfer agreement for this program with [Central Piedmont Community College \(CPCC\)](#). In this cooperative approach, students are able to take general education courses at RCCC. Fire protection courses are taught in Concord; however, some specialty courses may be taught at CPCC.

The Associate in Applied Science Degree – Fire Protection Technology – will be awarded by [CPCC](#).

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Industrial Engineering Technology

Department: Industrial & Engineering Technologies

Award(s) Offered:

A40240 - [Associate in Applied Science Degree](#)

C40240 - [Certificate Programs](#)

For additional information regarding this program,
contact **Program Head Franklin Merrell**
Phone: [704-216-3920](tel:704-216-3920) / Email: merrellf@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Industrial Engineering Technology curriculum prepares graduates to perform as technical leaders in manufacturing and service organizations. The curriculum incorporates the study and application of methods and techniques for developing, implementing, and improving integrated systems involving people, material, equipment, and information.

The course work emphasizes analytical and problem-solving techniques for process development and improvement. The curriculum includes systems analysis, quality and productivity improvement techniques cost analysis, facilities planning, organizational management, effective communications, and computer usage as a problem-solving tool.

Graduates of the curriculum should qualify for positions in a wide range of manufacturing and service organizations. Employment opportunities include industrial engineering technology, quality assurance, supervision, team leadership, and facilities management. Certification is available through organizations such as ASQ, SME, and APICS.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
■	BUS 137	Principles of Management	3	0	0	0	3
	EGR 125	Applications Software for Technology	1	2	0	0	2
	ENG 111	Expository Writing	3	0	0	0	3
■	ISC 112	Industrial Safety	2	0	0	0	2
	MAT 121	Algebra/Trigonometry I	2	2	0	0	3
		OR					
	MAT 161	College Algebra	3	0	0	0	3
		Total	13-14	7-9	0	0	17
First Year (Spring)							
■	DFT 170	Engineering Graphics	2	2	0	0	3
	ENG 114	Professional Research and Reporting	3	0	0	0	3
■	ISC 136	Productivity Analysis I	2	3	0	0	3
	MAT 151	Statistics I	2	0	0	0	2

MAT	151A	Statistics I - Lab	0	2	0	0	1
---	---	Humanities/Fine Arts Elective	3	0	0	0	3
Total			13	7	0	0	16
First Year (Summer)							
ISC	214	Job Analysis/Wages & Salary	2	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
Total			5	3	0	0	6
Second Year (Fall)							
CIV	240	Project Management	2	3	0	0	3
OR							
OMT	222	Project Management	3	0	0	0	3
ISC	132	Manufacturing Quality Control	2	3	0	0	3
ISC	243	Productivity & Operational Mgmt. I	2	3	0	0	3
---	---	Technical Electives*	1-6	0-10	0	0-30	6
Total			7-13	9-19	0	0-30	15
Second Year (Spring)							
ISC	255	Engineering Economy	2	2	0	0	3
MEC	242	Value/Supply Chain Management	3	0	0	0	3
---	---	Technical Elective*	1-6	0-10	0	0-30	6
Total			6-12	2-12	0	0-30	12
Total Semester Hours Credit (SHC) in Program:							66

■ **This is a Core Course and cannot be substituted.**

*Technical Electives:

Select 12 semester hour credits from one of the following options. This may include up to 3 SHC from COE course/combination of courses.

		Title	Class	Lab	Clinical	Work Exp.	Credits
Biotechnology Option:							
BIO	111	General Biology I	3	3	0	0	4
*BPM	110	Bioprocess Practices	3	4	0	0	5
BTC	181	Basic Lab Techniques	3	3	0	0	4
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
* BTC 181 is required. BPM 110 is highly recommended.							
Manufacturing/Services Option:							
BUS	217	Employment Law & Regulations	3	0	0	0	3
ISC	121	Environmental Health & Safety	3	0	0	0	3
ISC	225	Facility Layout	3	2	0	0	4
MEC	111	Machine Processes I	1	4	0	0	3
PHY	151	College Physics I	3	2	0	0	4
Logistics/Warehousing Option:							
OMT	226	Facility Security	3	0	0	0	3
OMT	240	Customers & Products	3	0	0	0	3
OMT	241	Logistics	3	0	0	0	3
OMT	243	Support Functions	3	0	0	0	3
OMT	246	Strategic Management of Resources	2	0	0	0	2
Construction Option:							
CIV	230	Construction Estimating	2	3	0	0	3
CMT	210	Professional Construction Supervision	3	0	0	0	3
CMT	212	Total Safety Performance	3	0	0	0	3
CMT	216	Costs and Productivity	3	0	0	0	3
CMT	218	Human Relations Issues	3	0	0	0	3
Three SHC may be selected from the following COE courses:							
COE	111	Co-op Work Experience I	0	0	0	10	1

COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

Notes:

1. [MAT 161](#), [MAT 175](#), or [MAT 271](#) may be substituted for transfer credit (may require extra prerequisites).
2. Students who wish to transfer to a 4-year school should select [PHY 151](#) and substitute [MAT 161](#) for [MAT 121](#).
3. Some BTC prefix courses may need to be taken at either [Gaston College](#) or [Forsyth Technical Community College](#) and transferred back to RCCC.

Industrial Engineering Technology Certificate Programs (C40240)

Courses			Credit Hours
Safety Certificate (C40240SA)			
CMT	212	Total Safety Performance	3
EGR	125	Applications Software for Technology	2
ISC	112	Industrial Safety	2
ISC	121	Environmental Health & Safety	3
ISC	225	Facility Layout	4
Total Semester Hours Credit:			14
Quality Certificate (C40240QL)			
CIV	240	Project Management	3
DFT	170	Engineering Graphics	3
EGR	125	Applications Software for Technology	2
ISC	132	Manufacturing Quality Control	3
MEC	242	Value/Supply Chain Management	3
Total Semester Hours Credit:			14
Maintenance Management Certificate (C40240MM)			
BUS	137	Principles of Management	3
DFT	170	Engineering Graphics	3
ISC	112	Industrial Safety	2
ISC	225	Facility Layout	4
MEC	111	Machine Processes I	3
Total Semester Hours Credit:			15
The following cognate courses may be taken to enhance the student's skills:			
CIV	240	Project Management	3
ELC	112	DC/AC Electricity	5
MEC	242	Value/Supply Chain Management	3
Bioprocess Engineering Technology Certificate (C40240BP)			
BIO	111	General Biology I	4
BPM	110	Bioprocess Practices	5
BTC	181	Basic Lab Techniques	4
ISC	112	Industrial Safety	2
ISC	132	Manufacturing Quality Control	3
Total Semester Hours Credit:			18
Production Control Certificate (C40240PC)			
CIV	240	Project Management	3

Programs of Study			
CIV	240	Project Management	3
ISC	136	Productivity Analysis I	3
ISC	243	Productivity & Operational Mgmt. I	3
ISC	255	Engineering Economy	3
Electives: (select one course)			
ECO	251	Principles of Microeconomics	3
EGR	125	Applications Software for Technology	2
MEC	242	Value/Supply Chain Management	3
Total Semester Hours Credit:			14-15
Manufacturing I Certificate (C40240MF)			
DFT	170	Engineering Graphics	3
EGR	125	Applications Software for Technology	2
ISC	132	Manufacturing Quality Control	3
MEC	111	Machine Processes I	3
MEC	242	Value/Supply Chain Management	3
Total Semester Hours Credit:			14
Management Certificate (C40240MC)			
BUS	217	Employment Law & Regulations	3
CIV	240	Project Management	3
EGR	125	Applications Software for Technology	2
ISC	243	Productivity & Operational Mgmt. I	3
ISC	255	Engineering Economy	3
Electives: (select one course)			
BUS	137	Principles of Management	3
ISC	136	Productivity Analysis I	3
ISC	214	Job Analysis/Wages & Salary	3
Total Semester Hours Credit:			17
Industrial Engineering Technology (C40240IE)			
EGR	125	Applications Software for Technology	2
ISC	112	Industrial Safety	2
ISC	132	Manufacturing Quality Control	3
ISC	136	Productivity Analysis I	3
ISC	225	Facility Layout	4
MEC	242	Value/Supply Chain Management	3
Total Semester Hours Credit:			17

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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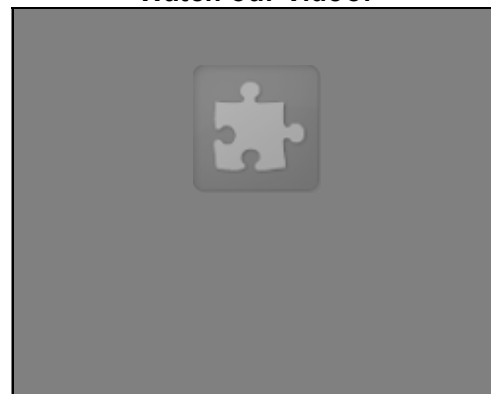
Machining Technology

Department: Industrial & Engineering Technologies

For additional information regarding this program,
contact **Program Head Jerry Hunt**.
Phone: [704-216-3915](tel:704-216-3915) / Email: jerry.hunt@rowan-cabarrus.edu

Full-Time Faculty Information:
Please refer to the [Faculty Directory Listing](#).

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Award(s) Offered:

- D50300 - [Diploma Program](#)
- C50300 - [Certificate Programs](#)

Description:

The Machining Technology curriculum is designed to develop skills in the theory and safe use of hand tools, power machinery, computerized equipment, and sophisticated precision inspection instruments.

Students will learn to interpret blueprints, set up manual and CNC machines, perform basic and advanced machining operations, and make decisions to ensure that work quality is maintained.

Employment opportunities for machining technicians exist in manufacturing industries, public institutions, governmental agencies, and in a wide range of specialty machining job shops.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
Fall Semester							
■	MAC 111	Machining Technology I	2	12	0	0	6
■	BPR 111	Blueprint Reading	1	2	0	0	2
	MAC 114	Introduction to Metrology	2	0	0	0	2
	MAC 151	Machining Calculations	1	2	0	0	2
	MEC 142	Physical Metallurgy	1	2	0	0	2
		Total	9	18	0	0	14
Spring Semester							
■	MAC 112	Machining Technology II	2	12	0	0	6
■	BPR 121	Blueprint Reading: Mechanical	1	2	0	0	2
■	MAC 122	CNC Turning	1	3	0	0	2

MAC	152	CNC Turning	Advanced Machining Calculations	1	2	0	0	2
MAC	124	CNC Milling		1	3	0	0	2
Total				6	22	0	0	14
Summer Term								
CIS	110	Introduction to Computers		2	2	0	0	3
ENG	111	Expository Writing		3	0	0	0	3
MAC	113	Machining Technology III		2	12	0	0	6
Total				7	14	0	0	12
Total Semester Hours Credit (SHC) in Program:								40

■ **This is a Core Course and cannot be substituted.**

Machining Technology Certificate Programs (C50300)

Courses				Credit Hours
Basic Certificate (C50300BA)				
BPR	111	Blueprint Reading		2
MAC	111	Machine Technology I		6
MAC	114	Introduction to Metrology		2
MAC	151	Machining Calculations		2
Total Semester Hours Credit:				12
Basic CNC Certificate (C50300CN)				
BPR	111	Blueprint Reading		2
MAC	114	Introduction to Metrology		2
MAC	122	CNC Turning		2
MAC	124	CNC Milling		2
MAC	151	Machining Calculations		2
MEC	142	Physical Metallurgy		2
Total Semester Hours Credit:				12
Conventional Machining Certificate (C50300CM)				
MAC	111	Machine Technology I		6
MAC	112	Machining Technology II		6
MAC	113	Machining Technology III		6
Total Semester Hours Credit:				18
CNC Operator Certificate (C50300OP)				
BPR	111	Blueprint Reading		2
MAC	111	Machine Technology I		6
MAC	114	Introduction to Metrology		2
MAC	122	CNC Turning		2
MAC	124	CNC Milling		2
Total Semester Hours Credit:				14



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Mechanical Drafting Technology

Department: [Industrial & Engineering Technologies](#)

Award(s) Offered:

D50340 - [Diploma Program](#)

For additional information regarding this program, contact **Program Head George Barringer**
 Phone: [704-216-3901](tel:704-216-3901) / Email: gbarringer@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Mechanical Drafting Technology curriculum prepares technicians to produce drawings of mechanical parts, components of mechanical systems, and mechanisms. CAD and the importance of technically correct drawings and designs based on current standards are emphasized.

Course work includes mechanical drafting, CAD, and proper drawing documentation. Concepts such as machine shop processes, basic materials, and physical sciences as they relate to the design process are also included. The use of proper dimensioning and tolerance techniques is stressed.

Graduates should qualify for employment in mechanical areas such as manufacturing, fabrication, research and development, and service industries.

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)								
	CIS	110	Introduction to Computers	2	2	0	0	3
■	DFT	111	Technical Drafting I	1	3	0	0	2
	DFT	111A	Technical Drafting I - Lab	0	3	0	0	1
■	DFT	151	CAD I	2	3	0	0	3
	MAT	121	Algebra/Trigonometry I	2	2	0	0	3
	MEC	111	Machine Processes I	1	4	0	0	3
			Total	8	17	0	0	15
First Year (Spring)								
■	DFT	112	Technical Drafting II	1	3	0	0	2
	DFT	112A	Technical Drafting II Lab	0	3	0	0	1
	DFT	121	Intro. to Geometric Dimen. & Tol.	1	2	0	0	2
■	DFT	152	CAD II	2	3	0	0	3
	ENG	111	Expository Writing	3	0	0	0	3
	MAC	122	CNC Turning	1	3	0	0	2
	MAC	124	CNC Milling	1	3	0	0	2
			Total	9	17	0	0	15
First Year (Summer)								
	DDF	211	Design Process I	1	6	0	0	4
	DFT	153	CAD III	2	3	0	0	3
			Total	3	9	0	0	7

Mechanical Drafting Technology Certificate Program (C50340)

Courses			Credit Hours
DFT	111	Technical Drafting I	2
DFT	111A	Technical Drafting I - Lab	1
DFT	112	Technical Drafting II	2
DFT	112A	Technical Drafting II Lab	1
DFT	151	CAD I	3
DFT	152	CAD II	3
Total Semester Hours Credit:			12



Mechanical Engineering Technology

Department: [Industrial & Engineering Technologies](#)

Award(s) Offered:

A40320 - [Associate in Applied Science Degree](#)

For additional information regarding this program, contact **Program Head George Barringer**
Phone: [704-216-3901](tel:704-216-3901) / Email: gbarringer@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Mechanical Engineering Technology curriculum prepares graduates for employment as technicians in the diversified mechanical and manufacturing engineering fields. Mechanical Engineering technicians assist in design, development, testing, process design and improvement, and troubleshooting and repair of engineered systems. Emphasis is placed on the integration of theory and hands-on application of engineering principles.

In addition to course work in engineering graphics, engineering fundamentals, materials and manufacturing processes, mathematics, and physics, students will study computer applications, critical thinking, planning and problem solving, and oral and written communications.

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

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
	DFT 111	Technical Drafting I	1	3	0	0	2
	DFT 111A	Technical Drafting I - Lab	0	3	0	0	1
■	DFT 151	CAD I	2	3	0	0	3
■	MAC 114	Metrology	2	0	0	0	2
	MAT 121	Algebra/Trigonometry I	2	2	0	0	3
		OR					
	MAT 161	College Algebra	3	0	0	0	3
■	MEC 111	Machine Processes I	1	4	0	0	3
		Total	8-9	15-17	0	0	15
First Year (Spring)							
	CIS 110	Introduction to Computers	2	2	0	0	3
	DFT 112	Technical Drafting II	1	3	0	0	2

DFT	112	Technical Drafting II	1	3	0	0	2
DFT	112A	Technical Drafting II Lab	0	3	0	0	1
DFT	121	Intro. to Geometric Dimen. & Tol.	1	2	0	0	2
■ DFT	152	CAD II	2	3	0	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	0	3
		OR					
MAT	175	Precalculus	4	0	0	0	4
MEC	142	Physical Metallurgy	1	2	0	0	2
		Total	9-11	15-17	0	0	16-17

First Year (Summer)

■ DDF	211	Design Process I	1	6	0	0	4
DFT	153	CAD III	2	3	0	0	3
PHY	131	Physics-Mechanics	3	2	0	0	4
		Total	6	11	0	0	11

Second Year (Fall)

ENG	111	Expository Writing	3	0	0	0	3
MEC	275	Engineering Mechanisms	2	2	0	0	3
---	---	Technical Elective*	Varies	Varies	0	Varies	10
		Total	Varies	Varies	0	Varies	16

Second Year (Spring)

ENG	114	Professional Research & Reporting	3	0	0	0	3
■ MEC	251	Statics	2	2	0	0	3
---	---	Humanities/Fine Arts Elective	3	0	0	0	3
---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
		Total	11	2	0	0	12

Total Semester Hours Credit (SHC) in Program:

70-71

■ This is a Core Course and cannot be substituted.

*Technical Electives:

Select a minimum of 10 semester hour credits from the following electives (this may include up to 2 SHC from COE course/combination of courses):

BSET/MEET Transfer Option

		Title	Class	Lab	Clinical	Work Exp.	Credits
CHM	151	General Chemistry I	3	3	0	0	4
CIS	115	Intro to Programming & Logic	2	2	0	0	3
CSC	134	C++Programming	2	3	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
ELC	112	DC/AC Electricity	3	6	0	0	5
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics I Lab	0	2	0	0	1
MAT	263	Brief Calculus	3	0	0	0	3
MAT	271	Calculus I	3	2	0	0	4
PHY	132	Physics-Electricity & Magnetism	3	2	0	0	4

Manufacturing Option

		Title	Class	Lab	Clinical	Work Exp.	Credits
ELC	112	DC/AC Electricity	3	6	0	0	5
ELC	125	Diagrams and Schematics	1	2	0	0	2
ISC	112	Industrial Safety	2	0	0	0	2
ISC	132	Manufacturing Quality Control	2	3	0	0	3
MAC	122	CNC Turning	1	3	0	0	2
MAC	124	CNC Milling	1	3	0	0	2
WLD	110	Cutting Processes	1	3	0	0	2
WLD	115	SMAW (Stick) Plate	2	9	0	0	5

WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	0	4

Two (2) SHC may be selected from the following COE courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	121	Co-op Work Experience II	0	0	0	10	1

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Motorsports Management Technology

Department: [Industrial & Engineering Technologies](#)

Award(s) Offered:

A60270 - [Associate in Applied Science Degree](#)

C60270 - [Certificate Program](#)

For additional information regarding this program,
contact **Program Head Richmond Gage**
Phone: [704-216-3918](tel:704-216-3918) / Email: rgage@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Motorsports Management Technology curriculum is designed to provide students with the knowledge and skills necessary to perform mid-management level functions in motorsports-related companies.

Course work includes instruction in general studies, motorsports, fundamentals, principles of management, computer applications, accounting, business mathematics, marketing, advertising and sales promotion, and human relations.

Graduates should qualify for employment/advancement in jobs related to management of motorsports teams/events/activities, as well as production and distribution of motorsports products and services.



Students who desire to pursue a BS degree in Manufacturing Systems, Motorsports, through North Carolina A&T State University, are strongly recommended to take [MAT 161](#) for the Math/Natural Sciences elective and either (a) [CHM 151](#) or (b) [PHY 151](#) as an approved substitution for an elective.

Suggested Course Sequence:

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

			Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)								
	ACA	115	Success and Study Skills	0	2	0	0	1
■	BUS	137	Principles of Management	3	0	0	0	3
	CIS	110	Introduction to Computers	2	2	0	0	3
	ENG	111	Expository Writing	3	0	0	0	3
■	MSM	110	Intro. to Motorsports Management	3	0	0	0	3
■	MSM	112	Engine/Drivetrain Fundamentals	1	2	0	0	2
			Total	12	6	0	0	15
First Year (Spring)								

BUS	121	Business Mathematics	2	2	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
■ MSM	216	Organization Mobility	2	0	0	0	2
---	---	Mathematics/Natural Science Elective*	2-4	0-2	0	0	3-4
Total			11-13	4-6	0	0	14-15
First Year (Summer)							
---	---	Major Elective**	0-3	0-3	0	0-20	3
---	---	Major Elective**	0-3	0-3	0	0-20	3
---	---	Humanities/Fine Arts Elective	3	0	0	0	3
Total			3-9	0-6	0	0-20	9
Second Year (Fall)							
BUS	280	REAL Small Business	4	0	0	0	4
■ MSM	210	Motorsports Marketing	3	0	0	0	3
■ MSM	212	Chassis/Handling Fundamentals	2	2	0	0	3
---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
---	---	Major Elective**	0-3	0-3	0	0-20	3
Total			12-15	2-5	0	0-20	16
Second Year (Spring)							
ACC	120	Principles of Financial Accounting	3	2	0	0	4
BUS	253	Leadership & Management Skills	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
■ MSM	214	Fabrication Fundamentals	1	2	0	0	2
■ MSM	218	Safety/Environment	2	0	0	0	2
Total			12	4	0	0	14
Total Semester Hours Credit (SHC) in Program:							68-69

■ This is a Core Course and cannot be substituted.

***Mathematics/Natural Sciences Electives:** Select 3-4 semester hour credits from the following.

		Title	Class	Lab	Clinical	Work Exp.	Credits
BIO	140	Environmental Biology	3	0	0	0	3
		OR					
PHY	110	Conceptual Physics	3	0	0	0	3
		OR					
MAT	140	Survey of Mathematics	3	0	0	0	3
		OR					
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
		OR					
MAT	161	College Algebra	3	0	0	0	3
		OR					
MAT	175	Precalculus	4	0	0	0	4

For students who choose a Natural Sciences elective, the requirement for meeting basic mathematical computation skills must be met. This can be accomplished by receiving an acceptable score on the basic math section of the placement test or successfully completing [MAT 060](#).

****Major Electives:**

Select 9 semester hour credits from the following courses. This may include up to 2 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
BUS	115	Business Law I	3	0	0	0	3
BUS	153	Human Resource Management	3	0	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	260	Business Communication	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	3
MSM	222	Advanced Chassis Analysis	4	0	0	0	4

MSM	220	Advanced Chassis Analysis	1	2	0	0	2
MSM	285	Motorsports Capstone Project	1	3	0	0	2
PHY	151	College Physics I	3	2	0	0	4
WLD	112	Basic Welding Process	1	3	0	0	2
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	121	Co-op Work Experience II	0	0	0	10	1

Motorsports Management Certificate Program (C60270)

Courses			Credit Hours
MSM	110	Intro. to Motorsports Management	3
MSM	112	Engine/Drivetrain Fundamentals	2
Select eight (8) hours from the following courses:			
CIS	110	Introduction to Computers	3
COE	111	Co-op Work Experience I	1
COE	112	Co-op Work Experience I	2
MSM	212	Chassis/Handling Fundamentals	3
MSM	214	Fabrication Fundamentals	2
MSM	216	Organization Mobility	2
MSM	218	Safety/Environment	2
MSM	210	Motorsports Marketing	3
MSM	220	Advanced Chassis Analysis	2
WLD	112	Basic Welding Process	2
Total Semester Hours Credit:			13

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Welding Technology

Department: [Industrial & Engineering Technologies](#)
Award(s) Offered:
D50420 - [Diploma Program](#)C50420 - [Certificate Programs](#)

For additional information regarding this program,
contact **Program Head Robert Simpson**
Phone: [704-216-3921](tel:704-216-3921) / Email: rsimpson@rowan-cabarrus.edu

Full-Time Faculty Information:

 Please refer to the [Faculty Directory Listing](#).

Description:

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

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

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

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
Fall Semester: Basic Certificate (C50420BC)							
	CIS 110	Introduction to Computers	2	2	0	0	3
■	WLD 110	Cutting Processes	1	3	0	0	2
■	WLD 115	SMAW (Stick) Plate	2	9	0	0	5
■	WLD 131	GTAW (TIG) Plate	2	6	0	0	4
		Total	7	20	0	0	14
Spring Semester: Intermediate Certificate (C50420IN)							
	WLD 116	SMAW (Stick) Plate/Pipe	1	9	0	0	4
■	WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
	WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	0	3
■	WLD 141	Symbols & Specifications	2	2	0	0	3
		Total	6	23	0	0	14
Summer Term: Advanced Certificate (C50420AD)							
*	ENG 102	Applied Communications II	3	0	0	0	3
	MAT 115	Mathematical Models	2	2	0	0	3
		OR					

PHY	110	Conceptual Physics	3	0	0	0	3
WLD	122	GMAW (MIG) Plate/Pipe	1	6	0	0	3
---	---	Major Elective*	1	3-9	0	0	3-4
Total			8-9	12-14	0	0	13-14
Total Semester Hours Credit (SHC) in Program:							41-42

■ **This is a Core Course and cannot be substituted.**

*Major Electives:

Select 3-4 semester hour credits from the following courses.

		Title	Class	Lab	Clinical	Work Exp.	Credits
WLD	151	Fabrication I	2	6	0	0	4
WLD	215	SMAW (Stick) Pipe	1	9	0	0	4
WLD	231	GTAW (TIG) Pipe	1	6	0	0	3
WLD	261	Certification Practices	1	3	0	0	3

WLD 151 and WLD 215 will be offered in years ending with even numbers.

WLD 231 and WLD 261 will be offered in years ending with odd numbers.

* It is suggested that students take ENG 102 and the general education elective prior to Summer Term, if possible.

For students not wishing to follow the program of study sequence listed above to earn a diploma, it is suggested that WLD 110 Cutting Processes be taken in the first semester. WLD 110 Cutting Processes will benefit students taking other welding classes.

Upon successful completion of the Basic, Intermediate, and Advanced Certificates, students may apply for a Diploma in Welding Technology.

Upon completion of any of the welding certificates or diploma, students with an average grade point of 3.0 or higher in the welding classes will be given the opportunity to take the welder qualification test (certification test) to applicable codes used in this program.

Machining Technology Certificate Programs (C50420)

Courses				Credits Hours
Stick Welding Certificate				
WLD	110	Cutting Processes		2
WLD	115	SMAW (Stick) Plate		5
WLD	116	SMAW (Stick) Plate/Pipe		4
WLD	141	Symbols and Specifications		3
Total Semester Hours Credit:				14
TIG Welding Certificate (C50420TI)				
WLD	110	Cutting Processes		2
WLD	131	GTAW (TIG) Plate		4
WLD	132	GTAW (TIG) Plate/Pipe		3
WLD	141	Symbols and Specifications		3
Total Semester Hours Credit:				12
MIG Welding Certificate (C50420MI)				
WLD	110	Cutting Processes		2
WLD	121	GMAW (MIG) FCAW/Plate		4
WLD	122	GMAW (MIG) Plate/Pipe		3
WLD	141	Symbols and Specifications		3
Total Semester Hours Credit:				12
High Performance Fabrication Certificate (C50420HP)				

WLD	110	Cutting Processes	2
WLD	121	GMAW (MIG) FCAW/Plate	4
WLD	131	GTAW (TIG) Plate	4
WLD	141	Symbols and Specifications	3
Total Semester Hours Credit:			13

CUSTOMIZED CERTIFICATES:

If the above certificates do not fit a student's needs, certificates are available upon completion of [WLD 110](#) Cutting Processes, [WLD 141](#) Symbols and Specifications, and selected other WLD prefix courses (excluding [WLD 112](#)). These certificates must contain 12-18 semester credit hours as designated for the Welding Technology curriculum program. Contact the Welding Technology program head for details.

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Computer Information Technology

Department: [Information Technologies](#)

Award(s) Offered:

A25260 - [Associate in Applied Science Degree](#)

D25260 - [Diploma Program](#)

C25260 - [Certificate Programs](#)

For additional information regarding this program,
contact **Program Head Anne Curlee**
Phone: [704-216-3758](tel:704-216-3758) / Email: acurlee@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Computer Information Technology curriculum is designed to prepare graduates for employment with organizations that use computers to process, manage, and communicate information. This is a flexible curriculum that can be customized to meet community information systems needs.

Course work will develop a student's ability to communicate complex technical issues related to computer hardware, software, and networks in a manner that computer users can understand. Classes cover computer operations and terminology, operating systems, database, networking, security, and technical support.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to manage information. Graduates should be prepared to sit for industry-recognized certification exams.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
■	CIS 110	Introduction to Computers	2	2	0	0	3
	ENG 111	Expository Writing	3	0	0	0	3
	MAT 115	Mathematical Models	2	2	0	0	3
		OR					
	MAT 161	College Algebra	3	0	0	0	3
		OR					
	MAT 175	PreCalculus	4	0	0	0	4
■	NOS 110	Operating System Concepts	2	3	0	0	3
	---	Social/Behavioral Science Elective	3	0	0	0	3
		Total	12-14	7-9	0	0	16-17
First Year (Spring)							

■	CIS	115	Introduction to Programming and Logic	2	3	0	0	3
■	CTS	120	Hardware/Software Support	2	3	0	0	3
	ENG	112	Argument-Based Research	3	0	0	0	3
			OR					
	ENG	114	Professional Research & Reporting	3	0	0	0	3
■	NET	110	Networking Concepts	2	2	0	0	3
	---	---	Major Elective*	1-3	0-3	0	0-40	3
			Total	10-12	8-11	0	0-40	15

First Year (Summer)

■	BUS	110	Introduction to Business	3	0	0	0	3
	CTS	135	Integrated Software Introduction	2	4	0	0	4
			Total	5	4	0	0	7

Second Year (Fall)

	CTS	240	Project Management	2	2	0	0	3
■	CTS	285	Systems Analysis & Design	3	0	0	0	3
■	DBA	110	Database Concepts	2	3	0	0	3
■	SEC	110	Security Concepts	3	0	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
			Total	13	5	0	0	15

Second Year (Spring)

■	CTS	289	System Support Project	1	4	0	0	3
	DBA	115	Database Applications	2	2	0	0	3
■	NOS	130	Windows Single User	2	2	0	0	3
■	NOS	230	Windows Administration I	2	2	0	0	3
	---	---	Major Elective*	1-3	0-3	0	0-40	3
			Total	8-10	10-13	0	0-40	15

Total Semester Hours Credit (SHC) in Program:

68-69

■ This is a Core Course and cannot be substituted.

*Major Electives:

Select 6 semester hour credits from the following courses. This may include up to 4 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
ACC	120	Principles of Financial Accounting	3	2	0	0	4
COE	110	World of Work	1	0	0	0	1
COE	111	Co-Op Work Experience I	0	0	0	10	1
COE	112	Co-Op Work Experience I	0	0	0	20	2
COE	113	Co-Op Work Experience I	0	0	0	30	3
COE	114	Co-Op Work Experience I	0	0	0	40	4
COE	121	Co-Op Work Experience II	0	0	0	10	1
COE	122	Co-Op Work Experience II	0	0	0	20	2
COE	123	Co-Op Work Experience II	0	0	0	30	3
COE	131	Co-Op Work Experience III	0	0	0	10	1
COE	211	Co-Op Work Experience IV	0	0	0	10	1
CSC	134	C++ Programming	2	3	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
CTS	125	Presentation Graphics	2	2	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3

CTS	155	Technical Support Functions	2	2	0	0	3
CTS	210	Computer Ethics	3	0	0	0	3
CTS	220	Advanced Hardware/Software Support	2	3	0	0	3
CTS	230	Advanced Spreadsheet	2	2	0	0	3
NET	125	Networking Basics	1	4	0	0	3
NET	126	Routing Basics	1	4	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
NOS	220	Linux/UNIX Administration I	2	2	0	0	3
OST	136	Word Processing	1	2	0	0	2
SPA	111	Elementary Spanish I	3	0	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
WEB	111	Introduction to Web Graphics	2	2	0	0	3

Computer Information Technology Diploma Program (D25260)

Courses				Credits	Hours
■	CIS	110	Introduction to Computers	3	
■	CIS	115	Introduction to Programming and Logic	3	
■	CTS	120	Hardware/Software Support	3	
	CTS	135	Integrated Software Introduction	4	
■	DBA	110	Database Concepts	3	
	ENG	111	Expository Writing	3	
	MAT	115	Mathematical Models	3	
			OR		
	MAT	161	College Algebra	3	
			OR		
	MAT	175	PreCalculus	4	
■	NET	110	Networking Concepts	3	
■	NOS	110	Operating Systems Concepts	3	
	---	---	Social/Behavioral Sciences Elective	3	
Select 9 SHC from the following:					
	BUS	110	Introduction to Business	3	
	CTS	240	Project Management	3	
	CTS	285	Systems Analysis & Design	3	
	DBA	115	Database Applications	3	
	NOS	130	Windows Single User	3	
	NOS	230	Windows Administration I	3	
	SEC	110	Security Concepts	3	
Total Semester Hours Credit:				40-41	

- **This is a Core Course and cannot be substituted.** A diploma offered for this program must have a minimum of 12 SHC

extracted from the Core courses of the A.A.S. degree. 12SHC of these courses cannot be substituted.

Computer Information Technology Certificate Programs (C25260)

Courses				Credit	Hours
Computer Information Technology Certificate (C25260CI)					
CIS	110	Introduction to Computers	3		
CTS	120	Hardware/Software Support	3		
CTS	135	Integrated Software Introduction	4		
DBA	110	Database Concepts	3		
NOS	110	Operating Systems Concepts	3		
Total Semester Hours Credit:				16	
Operating Systems Certificate (C25260OS)					

CIS	110	Introduction to Computers	3
NOS	110	Operating Systems Concepts	3
NOS	120	Linux/UNIX Single User	3
NOS	130	Windows Single User	3
NOS	230	Windows Administration I	3
Total Semester Hours Credit:			15
Computer Information Technology Office Support Certificate (C25260SU)			
BUS	110	Introduction to Business	3
CIS	110	Introduction to Computers	3
CTS	125	Presentation Graphics	3
CTS	135	Integrated Software Introduction	4
CTS	240	Project Management	3
Total Semester Hours Credit:			16
Computer Information Technology Foundations Certificate (C25260FO)			
CIS	110	Introduction to Computers	3
CIS	115	Introduction to Programming & Logic	3
DBA	110	Database Concepts	3
NET	110	Networking Concepts	3
NOS	110	Operating Systems Concepts	3
SEC	110	Security Concepts	3
Total Semester Hours Credit:			18
Spreadsheet Management Certificate (C25260SM)			
CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	3
CTS	135	Integrated Software	4
CTS	230	Advanced Spreadsheet	3
Total Semester Hours Credit:			13
Computer Information Technology Help Desk Certificate (C25260HD)			
CIS	110	Introduction to Computers	3
CTS	120	Hardware/Software Support	3
CTS	155	Tech Support Functions	3
CTS	285	Systems Analysis and Design	3
NET	110	Networking Concepts	3
NOS	110	Operating System Concepts	3
Total Semester Hours Credit:			18

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Computer Programming

Department: [Information Technologies](#)

Award(s) Offered:

A25130 - [Associate in Applied Science Degree](#)

D25130 - [Diploma Program](#)

C25130 - [Certificate Programs](#)

For additional information regarding this program,
contact **Program Head Lisa Garneau**
Phone: [704-216-3757](tel:704-216-3757) / Email: lisa.garneau@rccc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Computer Programming curriculum prepares individuals for employment as computer programmers and related positions through study and applications in computer concepts, logic, programming procedures, languages, generators, operating systems, networking, data management, and business operations.

Students will solve business computer problems through programming techniques and procedures, using appropriate languages and software. The primary emphasis of the curriculum is hands-on training in programming and related computer areas that provide the ability to adapt as systems evolve.

Graduates should qualify for employment in business, industry, and government organizations as programmers, programmer trainees, programmer/analysts, computer operators, systems technicians, or database specialists.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
		OR					
ACA	122	College Transfer Success	1	0	0	0	1
■	CIS	110 Introduction to Computers	2	2	0	0	3
■	CIS	115 Introduction to Programming and Logic	2	3	0	0	3
■	CSC	139 Visual BASIC Programming	2	3	0	0	3
■	NOS	110 Operating System Concepts	2	3	0	0	3
---	---	Social/Behavioral Science Elective	3	0	0	0	3
		Total	11	13	0	0	16
First Year (Spring)							
■	CSC	134 C++ Programming	2	3	0	0	3
■	CSC	239 Advanced Visual BASIC Programming	2	3	0	0	3
	MAT	115 Mathematical Models	3	0	0	0	3

			OR					
	MAT	140	Survey of Mathematics	3	0	0	0	3
			OR					
	MAT	161	College Algebra	3	0	0	0	3
			OR					
	MAT	175	Precalculus	4	0	0	0	4
■	NET	110	Networking Concepts	2	2	0	0	3
■	SEC	110	Systems Concepts	3	0	0	0	3
			Total	12-13	8	0	0	15-16

First Year (Summer)

■	BUS	110	Introduction to Business	3	0	0	0	3
	ENG	111	Expository Writing	3	0	0	0	3
	---	---	Humanities / Fine Arts Elective	3	0	0	0	3
			Total	9	0	0	0	9

Second Year (Fall)

■	CSC	234	Advanced C++ Programming	2	3	0	0	3
■	CTS	285	Systems Analysis & Design	3	0	0	0	3
■	DBA	110	Database Concepts	2	3	0	0	3
	ENG	112	Argument-Based Research	3	0	0	0	3
			OR					
	ENG	114	Professional Research & Reporting	3	0	0	0	3
			OR					
	COM	231	Public Speaking	3	0	0	0	3
■	NOS	120	Linux/UNIX Single User	2	2	0	0	3
			OR					
■	NOS	130	Windows Single User	2	2	0	0	3
	---	---	CSC Major Elective*	2	3	0	0	3
			Total	14	11	0	0	18

Second Year (Spring)

■	CSC	289	Programming Capstone Project	1	4	0	0	3
	---	---	CSC Major Elective*	2	3	0	0	3
	---	---	CSC Major Elective*	2	3	0	0	3
	---	---	Other Major Elective*	Varies	Varies	0	Varies	6
			Total	Varies	Varies	0	Varies	15

Total Semester Hours Credit (SHC) in Program:

73-74

■ This is a Core Course and cannot be substituted.

*CSC Major Electives:

Select 9 semester hour credits from the following courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
CSC	135	COBOL Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	153	C# Programming	2	3	0	0	3
CSC	235	Advanced COBOL Programming	2	3	0	0	3
CSC	251	Advanced JAVA Programming	2	3	0	0	3

*Other Major Electives:

Select 6 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
ACC	120	Principles of Financial Accounting	3	2	0	0	4

COE	110	World of Work	1	0	0	0	1
COE	111	Co-Op Work Experience I	0	0	0	10	1
COE	112	Co-Op Work Experience I	0	0	0	20	2
COE	113	Co-Op Work Experience I	0	0	0	30	3
COE	121	Co-Op Work Experience II	0	0	0	10	1
COE	122	Co-Op Work Experience II	0	0	0	20	2
COE	123	Co-Op Work Experience II	0	0	0	30	3
COE	131	Co-Op Work Experience III	0	0	0	10	1
CTS	120	Hardware/Software Support	2	3	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3
DBA	115	Database Applications	2	3	0	0	3
OST	131	Keyboarding	1	2	0	0	2
WEB	250	Database Driven Websites	2	2	0	0	3

Computer Programming Diploma Program (D25130)

Courses				Credits Hours
■	CIS	110	Introduction to Computers	3
■	CIS	115	Introduction to Programming and Logic	3
■	CSC	134	C++ Programming	3
■	CSC	139	Visual BASIC Programming	3
■	CSC	234	Advanced C++ Programming	3
■	CSC	239	Advanced Visual BASIC Programming	3
	ENG	111	Expository Writing	3
	MAT	115	Mathematical Models	3
			OR	
	MAT	140	Survey of Mathematics	3
			OR	
	MAT	161	College Algebra	3
			OR	
	MAT	175	Precalculus	4
■	NET	110	Networking Concepts	3
■	NOS	110	Operating Systems Concepts	3
Select 9 SHC from the following:				
	CSC	135	COBOL Programming	3
	CSC	151	JAVA Programming	3
	CSC	153	C# Programming	3
	CSC	235	Advanced COBOL Programming	3
	CSC	251	Advanced JAVA Programming	3
Total Semester Hours Credit:				39-43

Diploma offered for this program must have a minimum of 12 SHC extracted from the Core courses of the A.A.S. degree.

Computer Programming Certificate Programs (C25130)

Courses				Credit Hours
COBOL Language Certificate (C25130CO)				
Fall Semester:				
CIS	115	Introduction to Programming and Logic		3
CSC	135	Cobol Programming		3
Spring Semester:				
CSC	153	C# Programming		3
CSC	235	Advanced COBOL Programming		3
Total Semester Hours Credit:				12

Visual Language Certificate (C25130VL)			
Fall Semester:			
CIS	115	Introduction to Programming and Logic	3
CSC	139	Visual BASIC Programming	3
Spring Semester:			
CSC	153	C# Programming	3
CSC	239	Advanced Visual BASIC Programming	3
Total Semester Hours Credit:			12
C-Based Language Certificate (C25130CL)			
Spring Semester:			
CIS	115	Introduction to Programming and Logic	3
CSC	134	C++ Programming	3
CSC	153	C# Programming	3
Fall Semester:			
CSC	151	JAVA Programming	3
CSC	234	Advanced C++ Programming	3
Total Semester Hours Credit:			15

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Information Systems Security

Department: [Information Technologies](#)

Award(s) Offered:

A25270 - [Associate in Applied Science Degree](#)

For additional information regarding this program,
contact **Program Head Ruth Parker**
Phone: [704-216-3787](tel:704-216-3787) / Email: ruth.parker@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

Information Systems Security covers a broad expanse of technology concepts. This curriculum provides individuals with the skills required to implement effective and comprehensive information security controls.

Course work includes networking technologies, operating systems administration, information policy, intrusion detection, security administration, and industry best practices to protect data communications.

Graduates should be prepared for employment as security administrators. Additionally, they will acquire the skills that allow them to pursue security certifications.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
		OR					
	ACA 122	College Transfer Success	1	0	0	0	1
■	CIS 110	Introduction to Computers	2	2	0	0	3
	ENG 111	Expository Writing	3	0	0	0	3
■	NET 125	Networking Basics	1	4	0	0	3
■	NET 126	Routing Basics	1	4	0	0	3
■	NOS 110	Operating System Concepts	2	3	0	0	3
■	SEC 110	Security Concepts	3	0	0	0	3
		Total	12-13	13-15	0	0	19
First Year (Spring)							
	ENG 114	Professional Research & Reporting	3	0	0	0	3
	NET 225	Routing & Switching I	1	4	0	0	3
	NET 226	Routing & Switching II	1	4	0	0	3

■	NOS	130	Windows Single User	2	2	0	0	3
■	SEC	150	Secure Communications	2	2	0	0	3
			Total	9	12	0	0	15
First Year (Summer)								
■	BUS	110	Introduction to Business	3	0	0	0	3
	NET	175	Wireless Technology	2	2	0	0	3
■	SEC	160	Secure Administration I	2	2	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
			Total	10	4	0	0	12
Second Year (Fall)								
	MAT	115	Mathematical Models	2	2	0	0	3
			OR					
	MAT	140	Survey of Mathematics	3	0	0	0	3
			OR					
	MAT	161	College Algebra	3	0	0	0	3
■	NOS	120	Linux/UNIX Single User	2	2	0	0	3
■	SEC	210	Intrusion Detection	2	2	0	0	3
■	SEC	220	Defense-in-Depth	2	2	0	0	3
			Total	8-9	6-8	0	0	12
Second Year (Spring)								
■	CIS	115	Introduction to Programming & Logic	2	3	0	0	3
	CTS	120	Hardware/Software Support	2	3	0	0	3
■	DBA	110	Database Concepts	2	3	0	0	3
	SEC	289	Security Capstone Project	1	4	0	0	3
	---	---	Social/Behavioral Science Elective	3	0	0	0	3
			Total	10	13	0	0	15
Total Semester Hours Credit (SHC) in Program:								73

■ **This is a Core Course and cannot be substituted.**

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Medical Office Administration

Department: [Information Technologies](#)

Award(s) Offered:

A25310 - [Associate in Applied Science Degree](#)

D25310 - [Diploma Program](#)

C25310 - [Certificate Program](#)

For additional information regarding this program,
contact **Program Head Denise Askew**
Phone: [704-216-3775](tel:704-216-3775) / Email: denise.askew@rccc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Suggested Course Sequence:

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
	ENG 111	Expository Writing	3	0	0	0	3
■	OST 130	Comprehensive Keyboarding	2	2	0	0	3
■	OST 136	Word Processing	2	2	0	0	3
■	OST 141	Medical Terminology I - Medical Office	3	0	0	0	3
■	OST 164	Text Editing Applications	3	0	0	0	3
	OST 181	Introduction to Office Systems	2	2	0	0	3
		Total	14	8	0	0	19
First Year (Spring)							
	ENG 114	Professional Research & Reporting	3	0	0	0	3
	MAT 115	Mathematical Models	2	2	0	0	3
		OR					
	BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
		OR					
	BIO 168	Anatomy & Physiology I	2	2	0	0	4

	BIO	169	Anatomy & Physiology I	3	3	0	0	4
■	OST	134	Text Entry & Formatting	2	2	0	0	3
■	OST	142	Medical Terminology II – Med. Office	3	0	0	0	3
■	OST	148	Medical Coding, Billing & Insurance	3	0	0	0	3
	OST	236	Advanced Word/Information Processing	2	2	0	0	3
Total				15-17	6-7	0	0	18-20

Second Year (Fall)

	ACC	115	College Accounting	3	2	0	0	4
	BUS	137	Principles of Management	3	0	0	0	3
	OST	137	Office Software Applications	2	2	0	0	3
	OST	241	Medical Office Transcription I	1	2	0	0	2
	OST	247	CPT Coding in the Medical Office	1	2	0	0	2
	---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
Total				13	8	0	0	17

Second Year (Spring)

	COM	110	Introduction to Communications	3	0	0	0	3
			OR					
	COM	231	Public Speaking	3	0	0	0	3
	OST	149	Medical Legal Issues	3	0	0	0	3
	OST	242	Medical Office Transcription II	1	2	0	0	2
■	OST	243	Medical Office Simulation	2	2	0	0	3
	---	---	Humanities / Fine Arts Elective	3	0	0	0	3
	---	---	Major Elective(s)*	0-3	0-3	0	0-30	3-4
Total				12-15	4-7	0	0-30	17-18

Total Semester Hours Credit (SHC) in Program:

71-74

■ **This is a Core Course and cannot be substituted.**

*Major Electives:

Select 3-4 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
BIO	169	Anatomy and Physiology II	3	3	0	0	4
BUS	121	Business Mathematics	2	2	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	165	Desktop Publishing I	2	2	0	0	3
OST	122	Office Computations Terms	1	2	0	0	2
OST	132	Keyboarding Skill Building	1	2	0	0	2
OST	135	Advanced Text Entry & Formatting	3	2	0	0	4
OST	165	Advanced Text Editing Applications	2	2	0	0	3
OST	184	Records Management	2	2	0	0	3
OST	244	Medical Document Production	1	2	0	0	2
OST	284	Emerging Technologies	1	2	0	0	2
OST	289	Administrative Office Management	2	2	0	0	3
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

~~This program does not certify students to be Medical Transcriptionists but does give students medical transcription skills.~~

THIS program does not certify students to be Medical Transcriptionists but does give students medical transcribing skills to transcribe medical documents.

Medical Office Administration Diploma Program (D25310)

Courses				Credits Hours
■	CIS	110	Introduction to Computers	3
	ENG	111	Expository Writing	3
■	OST	130	Comprehensive Keyboarding	3
■	OST	134	Text Entry & Formatting	3
■	OST	136	Word Processing	3
■	OST	137	Office Software Applications	3
■	OST	141	Medical Terminology I - Medical Office	3
■	OST	142	Medical Terminology II – Med. Office	3
■	OST	148	Medical Coding, Billing & Insurance	3
■	OST	149	Medical Legal Issues	3
■	OST	164	Text Editing Application	3
■	OST	181	Introduction to Office Systems	3
	OST	236	Advanced Word/Information Processing	3
■	OST	243	Medical Office Simulation	3
	---	---	Social/Behavioral Sciences Elective	3
Total Semester Hours Credit:				45

■ **This is a Core Course and cannot be substituted.**

Medical Office Administration Certificate Program (C25310)

Courses				Credit Hours
	OST	130	Comprehensive Keyboarding	3
	OST	134	Text Entry & Formatting	3
	OST	141	Medical Terminology I - Medical Office	3
	OST	142	Medical Terminology II – Med. Office	3
	OST	149	Medical Legal Issues	3
Total Semester Hours Credit:				15

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Networking Technology

Department: [Information Technologies](#)

Award(s) Offered:

A25340 - [Associate in Applied Science Degree](#)

D25340 - [Diploma Program](#)

C25340 - [Certificate Programs](#)

For additional information regarding this program,
contact **Program Head John Brand**
Phone: [704-216-3751](tel:704-216-3751) / Email: john.brand@rccc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Networking Technology curriculum prepares individuals for employment supporting network infrastructure environments. Students will learn how to use technologies to provide reliable transmission and delivery of data, voice, image, and video communications in business, industry, and education.

Course work includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers.

Graduates may find employment in entry-level jobs as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
		OR					
	ACA 122	College Transfer Success	1	0	0	0	1
■	CIS 110	Introduction to Computers	2	2	0	0	3
	ENG 111	Expository Writing	3	0	0	0	3
■	NET 125	Networking Basics	1	4	0	0	3
■	NET 126	Routing Basics	1	4	0	0	3
■	NOS 110	Operating System Concepts	2	3	0	0	3
		Total	9	15	0	0	16
First Year (Spring)							
	ENG 114	Professional Research & Reporting	3	0	0	0	3
■	NET 225	Routing & Switching I	1	4	0	0	3

■	NET	226	Routing & Switching II	2	4	0	0	3
■	NOS	130	Windows Single User	2	2	0	0	3
■	NOS	230	Windows Administration I	2	2	0	0	3
Total				9	12	0	0	15

First Year (Summer)

■	BUS	110	Introduction to Business	3	0	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
Total				6	0	0	0	6

Second Year (Fall)

■	CIS	115	Introduction to Programming & Logic	2	3	0	0	3
■	NOS	120	Linux/UNIX Single User	2	2	0	0	3
■	SEC	110	Security Concepts	3	0	0	0	3
	---	---	Social/Behavioral Science Elective	3	0	0	0	3
	---	---	Major Elective*	0-3	0-4	0	0-40	3
Total				10-15	5-10	0	0-40	18

Second Year (Spring)

■	CTS	120	Hardware/Software Support	2	3	0	0	3
■	DBA	110	Database Concepts	2	3	0	0	3
■	NET	289	Networking Project	1	4	0	0	3
	MAT	115	Mathematical Models	2	2	0	0	3
			OR					
	MAT	140	Survey of Mathematics	3	0	0	0	3
			OR					
	MAT	161	College Algebra	3	0	0	0	3
	---	---	Major Elective*	0-3	0-3	0	0-40	3
Total				7-11	10-15	0	0-40	15

Total Semester Hours Credit (SHC) in Program:**70**■ **This is a Core Course and cannot be substituted.*****Major Electives:**

Select 9 semester hour credits from the following courses. This may include up to 4 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
CTS	210	Computer Ethics	3	0	0	0	3
CTS	220	Advanced Hardware/Software Support	2	3	0	0	3
NET	175	Wireless Technology	2	2	0	0	3
NOS	220	Linux/UNIX Administration I	2	2	0	0	3
NOS	231	Windows Administration II	2	2	0	0	3
SEC	160	Secure Administration I	2	2	0	0	3
SEC	210	Intrusion Detection	2	2	0	0	3
COE	110	World of Work	1	0	0	0	1
COE	111	Co-Op Work Experience I	0	0	0	10	1
COE	112	Co-Op Work Experience I	0	0	0	20	2
COE	113	Co-Op Work Experience I	0	0	0	30	3
COE	114	Co-Op Work Experience I	0	0	0	40	3
COE	121	Co-Op Work Experience II	0	0	0	10	1
COE	122	Co-Op Work Experience II	0	0	0	20	2
COE	123	Co-Op Work Experience II	0	0	0	30	3
COE	131	Co-Op Work Experience III	0	0	0	10	1
COE	211	Co-Op Work Experience IV	0	0	0	10	1

Networking Technology Diploma Program (D25340)

Courses				Credits Hours
■	BUS	110	Introduction to Business	3
■	CIS	110	Introduction to Computers	3
■	CIS	115	Introduction to Programming & Logic	3
■	DBA	110	Database Concepts	3
	ENG	111	Expository Writing	3
	MAT	115	Mathematical Models	3
			OR	
	MAT	140	Survey of Mathematics	3
			OR	
	MAT	161	College Algebra	3
■	NET	125	Networking Basics	3
■	NET	289	Networking Project	3
■	NOS	110	Operating System Concepts	3
■	NOS	120	Linux/UNIX Single User	3
	NOS	130	Windows Single User	3
	NOS	230	Windows Administration I	3
	---	---	Social/Behavioral Science Elective	3
	---	---	Major Elective*	3
Total Semester Hours Credit:				42

■ **This is a Core Course and cannot be substituted.**

A diploma offered for this program must have a minimum of 12 SHC extracted from the core courses of the AAS degree. 12 SHC of these courses cannot be substituted.

Networking Technology Certificate Programs (C25340)

Courses				Credit Hours
Networking -- Linux Track Certificate (C25340LI)				
CIS	110	Introduction to Computers		3
NET	125	Networking Basics		3
NOS	110	Operating System Concepts		3
NOS	120	Linux/UNIX Single User		3
NOS	220	Linux/UNIX Administration I		3
Total Semester Hours Credit:				15
Networking -- Microsoft Track Certificate (C25340MS)				
CIS	110	Introduction to Computers		3
NOS	110	Operating System Concepts		3
NOS	130	Windows Single User		3
NOS	230	Windows Administration I		3
NOS	231	Windows Administration II		3
Total Semester Hours Credit:				15
Networking -- Cisco Track Certificate (C25340CS)				
NET	125	Networking Basics		3
NET	126	Routing Basics		3
NET	225	Routing & Switching I		3
NET	226	Routing & Switching II		3
Total Semester Hours Credit:				12
Networking -- Hardware Certificate (C25340HW)				

Networking -- Hardware Certificate (2009-10)			
CIS	110	Introduction to Computers	3
CTS	120	Hardware/Software Support	3
CTS	220	Adv. Hardware/Software Support	3
NET	125	Networking Basics	3
		OR	
NET	110	Networking Concepts	3
NOS	110	Operating System Concepts	3
Total Semester Hours Credit:			15

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Office Administration

Department: [Information Technologies](#)

Award(s) Offered:

A25370 - [Associate in Applied Science Degree](#)

D25370 - [Diploma Program](#)

C25370 - [Certificate Program](#)

For additional information regarding this program,
contact **Program Head Denise Askew**
Phone: [704-216-3775](tel:704-216-3775) / Email: denise.askew@rccc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Office Administration curriculum prepares individuals for positions in administrative support careers. It equips office professionals to respond to the demands of a dynamic computerized workplace.

Students will complete courses designed to develop proficiency in the use of integrated software, oral and written communication, analysis and coordination of office duties and systems, and other support topics. Emphasis is placed on non-technical as well as technical skills.

Graduates should qualify for employment in a variety of positions in business, government, and industry. Job classifications range from entry-level to supervisor to middle management.

Suggested Course Sequence:

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
	ENG 111	Expository Writing	3	0	0	0	3
	OST 130	Comprehensive Keyboarding	2	2	0	0	3
■	OST 136	Word Processing	2	2	0	0	3
■	OST 164	Text Editing Applications	2	2	0	0	3
■	OST 181	Introduction to Office Systems	2	2	0	0	3
		Total	12	4	0	0	16
First Year (Spring)							
	ENG 114	Professional Research & Reporting	3	0	0	0	3
	OST 132	Keyboarding Skill Building	1	2	0	0	2
■	OST 134	Text Entry & Formatting	2	2	0	0	3
■	OST 184	Records Management	2	2	0	0	3
	OST 236	Advanced Word/Information Processing	2	2	0	0	3
	---	Humanities/Fine Arts Elective	3	0	0	0	3

	---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
	---	---	Major Elective*	0-3	0-2	0	0-30	3
			Total	13-16	8-10	0	0-30	20
Second Year (Fall)								
	ACC	115	College Accounting	3	2	0	0	4
	BUS	137	Principles of Management	3	0	0	0	3
■	CIS	110	Introduction to Computers	2	2	0	0	3
	OST	135	Advanced Text Entry & Formatting	3	2	0	0	4
■	OST	137	Office Software Applications	2	2	0	0	3
	OST	223	Administrative Office Transcription I	2	2	0	0	3
			Total	15	10	0	0	20
Second Year (Spring)								
	COM	110	Introduction to Communications	3	0	0	0	3
			OR					
	COM	231	Public Speaking	3	0	0	0	3
	MAT	115	Mathematical Models	2	2	0	0	3
			OR					
	BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
			OR					
	BIO	168	Anatomy & Physiology I	3	3	0	0	4
	OST	224	Administrative Office Transcription II	1	2	0	0	2
■	OST	289	Administrative Office Management	2	2	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
	---	---	Major Elective*	0-3	0-2	0	0-30	3
			Total	11-16	6-9	0	0-30	17-19
Total Semester Hours Credit (SHC) in Program:								73-75

■ **This is a Core Course and cannot be substituted.**

*Major Electives:

Select 6 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
BUS	115	Business Law I	3	0	0	0	3
BUS	121	Business Mathematics	2	2	0	0	3
BUS	230	Small Business Management	3	0	0	0	3
OST	122	Office Computations	1	2	0	0	2
OST	141	Medical Terminology I - Medical Office	3	0	0	0	3
OST	142	Medical Terminology II - Medical Office	3	0	0	0	3
OST	148	Medical Coding, Billing, and Insurance	3	0	0	0	3
OST	149	Medical Legal Issues	3	0	0	0	3
OST	165	Advanced Text Editing Applications	2	2	0	0	3
OST	284	Emerging Technology	1	2	0	0	2
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

Courses				Credits Hours
	BUS	137	Principles of Management	3
■	CIS	110	Introduction to Computers	3
	ENG	111	Expository Writing	3
	ENG	114	Professional Research & Reporting	3
■	OST	130	Comprehensive Keyboarding	2
■	OST	132	Keyboarding Skill Building	2
■	OST	134	Text Entry & Formatting	3
■	OST	136	Word Processing	3
■	OST	137	Office Software Applications	3
■	OST	164	Text Editing Application	3
■	OST	181	Introduction to Office Systems	3
■	OST	184	Records Management	3
	OST	236	Advanced Word/Information Processing	3
	---	---	Major Elective* (from A.A.S. Program)	3
Total Semester Hours Credit:				40

■ This is a Core Course and cannot be substituted.

Office Administration Certificate Programs (C25370)

Courses				Credit Hours
	OST	130	Comprehensive Keyboarding	2
	OST	134	Text Entry & Formatting	3
	OST	136	Word Processing	3
	OST	137	Office Software Applications	2
	OST	164	Text Editing Application	3
	OST	184	Records Management	3
Total Semester Hours Credit:				16

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Web Technologies

Department: [Information Technologies](#)

Award(s) Offered:

A25290 - [Associate in Applied Science Degree](#)

D25290 - [Diploma Program](#)

C25290 - [Certificate Programs](#)

For additional information regarding this program,
contact **Program Head Scott Nason**
Phone: [704-216-3784](tel:704-216-3784) / Email: snason@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The Web Technologies curriculum prepares graduates for careers in the information technology arena using computers and distributed computing to disseminate and collect information via the web.

Course work in this program covers the terminology and use of computers, network devices, networks, servers, databases, applications, programming languages, as well as web applications, site development and design. Studies will provide opportunity for students to learn related industry standards.

Graduates should qualify for career opportunities as designers, administrators, or developers in the areas of web applications, websites, web services, and related areas of distributed computing.

Suggested Course Sequence:

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

	Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)						
■ ACA 115	Success and Study Skills	0	2	0	0	1
■ CIS 110	Introduction to Computers	2	2	0	0	3
■ NOS 110	Operating System Concepts	2	3	0	0	3
■ WEB 110	Internet/Web Fundamentals (2nd 8 Weeks)	2	2	0	0	3
■ WEB 119	Web Technologies Program Orientation (1st 8 Weeks)	1	2	0	0	2
■ WEB 120	Introduction to Internet Multimedia	2	2	0	0	3
	Total	9	13	0	0	15
First Year (Spring)						
■ DBA 110	Database Concepts	2	3	0	0	3
■ NET 110	Networking Concepts (1st 8 Weeks)	2	2	0	0	3
■ WEB 115	Web Markup and Scripting (1st 8 Weeks)	2	2	0	0	3
■ WEB 140	Web Development Tools (2nd 8 Weeks)	2	2	0	0	3
■ WEB 230	Implementing Web Services (2nd 8 Weeks)	2	2	0	0	3
	Total	10	11	0	0	15

First Year (Summer)

■	BUS	110	Introduction to Business	3	0	0	0	3
	ENG	111	Expository Writing	3	0	0	0	3
	MAT	115	Mathematical Models	2	2	0	0	3
			OR					
	MAT	140	Survey of Mathematics	3	0	0	0	3
			OR					
	MAT	161	College Algebra	3	0	0	0	3
			OR					
	MAT	175	Precalculus	4	0	0	0	4
	---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
			Total	11-13	0-2	0	0	12-13

Second Year (Fall)

	ENG	112	Argument-Based Research	3	0	0	0	3
			OR					
	ENG	114	Professional Research & Reporting	3	0	0	0	3
■	SEC	110	Security Concepts	3	0	0	0	3
■	WEB	210	Web Design	2	2	0	0	3
■	WEB	250	Database Driven Websites	2	2	0	0	3
	---	---	Major Elective*	0-2	0-2	0	0-40	3
			Total	10-12	4-6	0	0-40	15

Second Year (Spring)

■	CIS	115	Introduction to Programming & Logic	2	3	0	0	3
	WEB	260	E-Commerce Infrastructure	2	2	0	0	3
	WEB	287	Web E-Portfolio	1	2	0	0	2
	---	---	Humanities / Fine Arts Elective	3	0	0	0	3
	---	---	Major Elective*	0-2	0-2	0	0-40	3
			Total	8-10	7-9	0	0-40	14

Total Semester Hours Credit (SHC) in Program:

71-72

■ This is a Core Course and cannot be substituted.

***Major Electives:**

Select 6 semester hour credits from the following courses. This may include up to 6 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
CTS	240	Project Management	2	2	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
NOS	130	Windows Single User	2	2	0	0	3
NOS	220	Linux/UNIX Administration I	2	2	0	0	3
NOS	230	Windows Administration I	2	2	0	0	3
WEB	111	Introduction to Web Graphics	2	2	0	0	3
WEB	211	Advanced Web Graphics	2	2	0	0	3
WEB	289	Internet Technologies Project	1	4	0	0	3
COE	110	World of Work	1	0	0	0	1
COE	111	Co-Op Work Experience I	0	0	0	10	1
COE	112	Co-Op Work Experience I	0	0	0	20	2
COE	113	Co-Op Work Experience I	0	0	0	30	3
COE	114	Co-Op Work Experience I	0	0	0	40	3
COE	121	Co-Op Work Experience II	0	0	0	10	1
COE	122	Co-Op Work Experience II	0	0	0	20	2
COE	123	Co-Op Work Experience II	0	0	0	30	3

COE	131	Co-Op Work Experience III	0	0	0	10	1
COE	211	Co-Op Work Experience IV	0	0	0	10	1

Web Technologies Diploma Program (D25290)

Courses				Credits	Hours
■	CIS	110	Introduction to Computers	3	
	ENG	111	Expository Writing	3	
	HUM	110	Technology and Society	3	
■	NET	110	Networking Concepts	3	
	SEC	110	Security Concepts	3	
■	WEB	110	Internet/Web Fundamentals	3	
	WEB	111	Introduction to Web Graphics	3	
■	WEB	115	Web Markup and Scripting	3	
	WEB	119	Web Technologies Program Orientation	2	
■	WEB	120	Introduction to Internet Multimedia	3	
■	WEB	140	Web Development Tools	3	
■	WEB	210	Web Design	3	
	WEB	211	Advanced Web Graphics	3	
Total Semester Hours Credit:				38	

■ This is a Core Course and cannot be substituted.

Web Technologies Certificate Programs (C25290)

Courses				Credit	Hours
E-Commerce Certificate (C25290EC)					
CTS	240	Project Management	3		
DBA	110	Database Concepts	3		
WEB	250	Database Driven Websites	3		
WEB	260	E-Commerce Infrastructure	3		
Total Semester Hours Credit:				12	
Internet Technologies Certificate (C25290IN)					
CIS	110	Introduction to Computers	3		
WEB	110	Internet/Web Fundamentals	3		
WEB	115	Web Markup and Scripting	3		
NEW	110	Networking Concepts	3		
OR					
NET	125	Networking Basics	3		
Total Semester Hours Credit:				12	
Web Designer Certificate (C25290DS)					
WEB	110	Internet/Web Fundamentals	3		
WEB	115	Web Markup and Scripting	3		
WEB	140	Web Development Tools	3		
WEB	210	Web Design	3		
Total Semester Hours Credit:				12	
Web Graphics Certificate (C25290GR)					
WEB	110	Internet/Web Fundamentals	3		
WEB	111	Introduction to Web Graphics	3		
WEB	120	Introduction to Internet Multimedia	3		
WEB	211	Advanced Web Graphics	3		

Total Semester Hours Credit:			12
Website Designer Certificate (C25290WD)			
WEB	110	Internet/Web Fundamentals	3
WEB	111	Introduction to Web Graphics	3
WEB	115	Web Markup and Scripting	3
WEB	230	Implementing Web Services	3
Total Semester Hours Credit:			12

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Associate in Fine Arts

Department: Liberal Arts & General Education

Award(s) Offered:

A10200 - [Associate in Fine Arts](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: [✉](mailto:YWilson@rowancc.edu)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

The Associate in Fine Arts (AFA) degree is recommended for students who plan to transfer to senior colleges or universities to continue study in areas leading to a Bachelor of Fine Arts, Bachelor of Arts in Fine Arts (BAFA) or Bachelor of Science in Art Education. The program has a concentration in the studio arts which includes courses in 2 and 3 dimensional design, drawing, painting, and digital photography. This degree program offers courses comparable to the freshman and sophomore levels at four-year colleges and universities. Academic advisors are available to assist students in selecting courses that best meet students' interests and the requirements of transfer institutions. Because course requirements vary among four-year institutions, students should obtain current catalogs from the schools they plan to attend.

A comprehensive articulation agreement between the North Carolina Community College System and the North Carolina University System facilitates the transfer process for students wishing to attend a four-year institution within the N.C. University System. Because of this agreement, students who complete the general education core at RCCC will have satisfied the universities' general education requirements and become eligible to enroll with junior level status upon completion of the Associate in Fine Arts degree. Courses included in the articulation agreement are designated in the RCCC catalog Course Descriptions. Community college graduates who have earned 64 semester hours of academic credit in approved transfer courses with a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 64 semester hours of academic credit upon admission to a university.

Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving institutions. In addition to the 28 semester hours credit (SHC) general education core, students must complete 1 SHC in College Transfer Success (ACA 122), and 36 SHC of college transfer fine arts courses. Transfer of ACA 122 is not guaranteed.

Recommended Course Sequence :

Click here for [Recommended course sequence](#)

Course Information:

		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing the Associate in Fine Arts degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (28 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3

Select one course (2 SHC) from the following:

Select one course (3 SHC) from the following:

ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts: (6 SHC)

Select one literature course (3 SHC) and one course (3 SHC) from one of the following discipline areas: music, foreign languages, humanities, philosophy, religion, and speech/communication.

Literature - Select one course from the following**(Speech/Communication may not substitute for the literature requirement.)**

ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Literature	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3

Select one course (3 SHC) from the following discipline areas:**Foreign Languages**

FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3

Drama

DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3

Humanities

HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	2	2	0	0	3
HUM	161	Advanced Film Studies	2	2	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3

Music

MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3

Philosophy

PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3

PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (9SHC)							
Select three courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. Note: at least one course must be a history course.							
History (select one course (3 SHC) from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Students must select two courses (6 SHC) from at least two of the following discipline areas:							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3

SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (7 SHC)							
Natural Sciences: (4 SHC) select one course (including accompanying laboratory work) from the following biological and physical sciences disciplines:							
AST	151	General Astronomy I AND	3	0	0	0	3
AST	151A	General Astronomy I Lab	0	2	0	0	1
		OR					
BIO	111	General Biology I	3	3	0	0	4
		OR					
CHM	131	Introduction to Chemistry AND	3	0	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	0	1
		OR					
CHM	151	General Chemistry I	3	3	0	0	4
		OR					
PHY	151	College Physics I	3	2	0	0	4
Mathematics: (3 SHC) select one of the following courses in introductory mathematics:							
MAT	151	Statistics I	3	0	0	0	3
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	3	0	0	0	3
Students should check with the university of their choice to make sure that they complete the appropriate math course. If MAT 151 Statistics I is selected, MAT 151A Statistics Lab is also required. This one-credit hour course will satisfy one of the 24 required electives listed at the bottom of this program of study.							
AFA courses as determined by the RCCC program of study.							
Other Required Hours (36 SHC)							
Fine Arts Core (Required): (12 SHC)							
Fine Arts Core: (12 SHC) Students must complete the following courses:							
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
Fine Arts Electives: (24 SHC)							
Fine Arts Electives: (24 SHC) Select courses from the list below for a total of 24 credit hours:							
ART	116	Survey of American Art	3	0	0	0	3
ART	122	Design II	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3

MAT	151A	Statistics I Lab	0	2	0	0	1
<i>Students should check with the university of their choice regarding the transfer of the above Fine Arts electives.</i>							
TOTAL HOURS REQUIRED FOR AFA DEGREE: 65 SEMESTER HOURS							
<i>Note: MAT 151A Statistics I Lab is not an AFA course; however, it is a required elective if MAT 151 Statistics is selected as the 3-hour Mathematics requirement.</i>							

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

Rowan-Cabarrus Community College

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Associate in Arts (A.A.)

Department: Liberal Arts & General Education

Award(s) Offered:

A10100 - [Associate in Arts Degree](#)

D10100 - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: ywilson@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

The Associate in Arts (AA) program emphasizes liberal arts and is intended for students who wish to transfer to a four-year college or university. This degree program offers courses comparable to the freshman and sophomore levels at four-year colleges and universities. Academic advisors are available to assist students in selecting courses that best meet students' interests and the requirements of transfer institutions. Because course requirements vary among four-year institutions, students should obtain current catalogs from the schools they plan to attend.

A comprehensive articulation agreement between the North Carolina Community College System and the North Carolina University System facilitates the transfer process for students wishing to attend a four-year institution within the N.C. University System. Because of this agreement, students who complete the general education core at RCCC will have satisfied the universities' general education requirements and become eligible to enroll with junior level status upon completion of the Associate in Arts degree. Courses included in the articulation agreement are designated in the RCCC catalog Course Descriptions. Community college graduates who have earned 64 semester hours of academic credit in approved transfer courses with a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 64 semester hours of academic credit upon admission to a university.

A similar articulation agreement between RCCC and Catawba College facilitates the transfer process for students wishing to complete their four-year degrees at Catawba. Because of this agreement, RCCC students can satisfy all but one course needed to complete general education requirements for Catawba College. Some RCCC upper level junior/senior credits also may transfer. Courses included in the articulation agreement are designated in the RCCC catalog course descriptions.

Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving institutions.

In addition to the 44 semester hours credit (SHC) general education core, students must complete 1 SHC in College Transfer Success (ACA 122), and 20 SHC of college transfer general education, elective, and/or pre-major courses. Transfer of ACA 122 is not guaranteed.

Recommended Course Sequence :

Click here for [Recommended course sequence](#)

Course Information:

	Title	Class	Lab	Clinical	Work Exp.	Credits
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The following success and study skills course (one semester hour credit) must be taken in the first semester by all

students pursuing the Associate in Arts degree. This course may not transfer to a senior institution.

ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							
Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)							
ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Literature	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:							
Art							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	116	Survey of American Art	3	0	0	0	3
Drama							
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3
Foreign Languages							
FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3
Humanities							
HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	2	2	0	0	3
HUM	161	Advanced Film Studies	2	2	0	0	3

HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
Music							
MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3
Philosophy							
PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. Note: at least one course must be a history course.							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Students must select three courses (9 SHC) from at least two of the following discipline areas:							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	0	0	1	1
ANT	240	Archaeology	3	0	0	0	3
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3

POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC)							
Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:							
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4
Mathematics (6 SHC)							
Select at least one course in introductory mathematics. The other course may be selected from among other quantitative subjects, such as computer science and statistics.							
Introductory Mathematics (Select one:)							
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4
Select one course from the following:							
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	263	Brief Calculus	3	0	0	0	3
MAT	271	Calculus I	3	2	0	0	4
Students should check with the university of their choice to make sure that they complete the appropriate math course.							

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

Other Required Hours (20 SHC)

A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.

ACC	120	Principles of Financial Accounting	3	2	0	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
ANT	240A	Archaeology Field Lab	0	4	0	0	2
ANT	245	World Prehistory	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship I	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3
AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
AST	251	Observational Astronomy	1	3	0	0	2
BIO	110	Principles of Biology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
BIO	168	Anatomy and Physiology I	3	3	0	0	4
BIO	169	Anatomy and Physiology II	3	3	0	0	4
BIO	250	Genetics	3	3	0	0	4
BIO	275	Microbiology	3	3	0	0	4
BIO	280	Biotechnology	2	3	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CHM	263	Analytical Chemistry	3	4	0	0	5
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3

COM	252	Debate II	3	0	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
GEO	121	North Carolina Geography	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3
HIS	163	The World Since 1945	3	0	0	0	3
HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
PHY	110	Conceptual Physics	3	0	0	0	3
PHY	110A	Conceptual Physics - Lab	0	2	0	0	1
POL	130	State & Local Government	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM : 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Business Administration, Accounting, Economics, Finance, and Marketing

Department: Liberal Arts & General Education

Award(s) Offered:

A1010B - [Associate in Arts Degree](#)

D1010B - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: YWilson@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to pursue a Bachelor of Arts or Bachelor of Science degree in Business Administration, Accounting, Economics, Finance, or Marketing. Students who complete this program will meet freshmen and sophomore requirements for all public universities in North Carolina which offer degrees in Business Administration. Individual institutions may have additional requirements for admission into their major departments, and graduates should expect to have a GPA of 2.5 or higher to meet admission requirements. Students should consult catalogs from the schools they plan to attend to determine additional requirements, if any.

This program is not designed to provide entry-level skills for entry into a business occupation. Students interested in obtaining an entry-level job in a business occupation upon graduation should pursue one of the A.A.S. degree programs within the Business Technologies area.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Business Administration, Accounting, Economics, Finance, and Marketing

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3

Select one course from the following:

ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts: (12 SHC)

Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. **Note: at least one course must be a literature course.**

Literature (3 SHC) - Select one course from the following

(Speech/Communication may not substitute for the literature requirement.)

ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Writers	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following discipline areas:**Art**

ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	116	Survey of American Art	3	0	0	0	3

Drama

DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3

Foreign Languages

FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3

Humanities

HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	2	2	0	0	3
HUM	161	Advanced Film Studies	2	2	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3

Music

MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3

Course	SHC	History or Social Science	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3
Philosophy							
PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. Note: at least one course must be a history course.							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Economics (The following course is required):							
ECO	251	Principles of Microeconomics	3	0	0	0	3
Students must select two courses (6 SHC) from the following discipline areas: (POL 120, PSY 150, and SOC 210 are recommended.)							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3

PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC)							
Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:							
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
Mathematics (6 - 7 SHC)							
Select at least one course in introductory mathematics.							
Introductory Mathematics (Select one:)							
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4
One of the following courses is required:							
MAT	263	Brief Calculus	3	0	0	0	3
MAT	271	Calculus I	3	2	0	0	4
Students should check with the university of their choice to make sure that they complete the appropriate math course.							
A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.							
Other Required Hours (20 SHC)							
A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.							
The following courses are required:							
ACC	120	Principles of Financial Accounting	3	2	0	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
MAT	151	Statistics I	3	0	0	0	3
Select 3 SHC hours from the following courses:							
ANT	240A	Archaeology Field Lab	0	4	0	0	2
ANT	245	World Prehistory	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3

ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship I	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3
AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
AST	251	Observational Astronomy	1	3	0	0	2
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
BIO	250	Genetics	3	3	0	0	4
BIO	275	Microbiology	3	3	0	0	4
BIO	280	Biotechnology	2	3	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CHM	263	Analytical Chemistry	3	4	0	0	5
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
GEO	121	North Carolina Geography	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3
HIS	163	The World Since 1945	3	0	0	0	3

PRE	100	THE WORLD SINCE 1945	3	0	0	0	0
HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
PHY	110	Conceptual Physics	3	0	0	0	3
PHY	110A	Conceptual Physics - Lab	0	2	0	0	1
POL	130	State & Local Government	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM : 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Business Education and Marketing Education

Department: Liberal Arts and General Education

Award(s) Offered:

A1010C - [Associate in Arts Degree](#)

D1010C - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: [✉](#)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Business Education and Marketing Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Business Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I and II. For information and registration for PRAXIS, contact www.ets.org/praxis or a counselor in Student Services.

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Eng. Arts (12 SHC)							

Humanities/Fine Arts: (12 SHC)

Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. **Note: at least one course must be a literature course.**

**Literature (3 SHC) - Select one course from the following
(Speech/Communication may not substitute for the literature requirement.)**

ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Writers	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3

Select three courses (9 SHC) from at least two of the following discipline areas:

Art

ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	116	Survey of American Art	3	0	0	0	3

Drama

DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3

Foreign Languages

FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3

Humanities

HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	2	2	0	0	3
HUM	161	Advanced Film Studies	2	2	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3

Music

MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3

Philosophy

PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3

PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. Note: at least one course must be a history course.							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Economics (The following course is required):							
ECO	251	Principles of Microeconomics	3	0	0	0	3
Students must select two courses (6 SHC) from at least two the following discipline areas: (PSY 150, and SOC 210 are recommended.)							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3

SOC	213	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (14 - 15 SHC)							
Natural Sciences (8 SHC)							
Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:							
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
Mathematics (6 - 7 SHC)							
Select at least one course in introductory mathematics.							
Introductory Mathematics (Select one:)							
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4
The following course is required:							
CIS	110	Introduction to Computers	2	2	0	0	3
Students should check with the university of their choice to make sure that they complete the appropriate math course.							
A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.							
Other Required Hours (19-21 SHC)							
A minimum of 19 SHC of college transfer general education, elective, and/or pre-major courses is required.							
The following courses are required:							
ACC	120	Principles of Financial Accounting	3	2	0	0	4
ECO	252	Principles of Macroeconomics	3	0	0	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	0	3
Select 9 - 10 SHC hours from the following courses (three of the first four courses are recommended):							
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PFD	122	Yoga I	0	2	0	0	1

PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.							
TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65							
Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.							

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Criminal Justice

Department: Liberal Arts and General Education

Award(s) Offered:

A1010D - [Associate in Arts Degree](#)

D1010D - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: ywilson@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Criminal Justice. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Criminal Justice.

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							

Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)						
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	251	Western World Literature I	3	0	0	3
ENG	252	Western World Literature II	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:						
Art						
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	116	Survey of American Art	3	0	0	3
Drama						
DRA	111	Theatre Appreciation	3	0	0	3
DRA	112	Literature of the Theatre	3	0	0	3
DRA	122	Oral Interpretation	3	0	0	3
DRA	126	Story Telling	3	0	0	3
Foreign Languages						
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3
Humanities						
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	160	Introduction to Film	2	2	0	3
HUM	161	Advanced Film Studies	2	2	0	3
HUM	211	Humanities I	3	0	0	3
HUM	212	Humanities II	3	0	0	3
Music						
MUS	110	Music Appreciation	3	0	0	3
MUS	113	American Music	3	0	0	3
MUS	210	History of Rock Music	3	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	3
Philosophy						
PHI	210	History of Philosophy	3	0	0	3
PHI	220	Western Philosophy I	3	0	0	3
PHI	221	Western Philosophy II	3	0	0	3
PHI	230	Introduction to Logic	3	0	0	3

PHI	230	Introduction to Logic	3	0	0	0	0
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Four courses from the following discipline areas are required. One history course is required.							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
The following courses (9 SHC) are required:							
POL	120	American Government	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC)							
Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:							
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4
Mathematics (6 SHC)							
Select at least one course in introductory mathematics.							
Introductory Mathematics (Select one:)							
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4
The following course is required:							
MAT	151	Statistics I	3	0	0	0	3
Students should check with the university of their choice to make sure that they complete the appropriate math course.							

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

Other Required Hours (20 SHC)

A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.

The following courses are required:

CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3

Select 11 SHC hours from the following courses:

ACC	120	Principles of Financial Accounting	3	2	0	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
ANT	240A	Archaeology Field Lab	0	4	0	0	2
ANT	245	World Prehistory	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship I	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3
AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
AST	251	Observational Astronomy	1	3	0	0	2
BIO	110	Principles of Biology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
BIO	168	Anatomy and Physiology I	3	3	0	0	4
BIO	169	Anatomy and Physiology II	3	3	0	0	4
BIO	250	Genetics	3	3	0	0	4
BIO	275	Microbiology	3	3	0	0	4
BIO	280	Biotechnology	2	3	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	0	3

CHM	263	Analytical Chemistry	3	4	0	0	5
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
GEO	121	North Carolina Geography	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3
HIS	163	The World Since 1945	3	0	0	0	3
HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	271	Calculus I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
POL	110	Introduction to Political Science	3	0	0	0	3
POL	130	State & Local Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3

PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

Rowan-Cabarrus Community College

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Liberal Arts & General Education Department

Elementary Education

Department: Liberal Arts & General Education

Award(s) Offered:

A1010R - [Associate in Arts Degree](#)

D1010R - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: ywilson@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Elementary Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary and admission is competitive across the several programs in Elementary Education. Minimum statewide requirements are:

1. Minimum 2.5 grade-point average on a 4.0 scale.
2. Satisfactory passing scores as established by the State Board of Education on PRAXIS 1 – PPST- Reading; PPST- Writing; PPST-Math. For information and registration for PRAXIS, contact www.ets.org/praxis or a counselor in Student Services.

Receiving institutions may have additional requirements, pre-requisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							

ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from the following discipline areas. At least one course must be a literature course.							
Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)							
ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
The following course is required to substitute for 3 SHC of Humanities/Fine Arts.							
COM	231	Public Speaking	3	0	0	0	3
One of the following courses is required:							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
MUS	110	Music Appreciation	3	0	0	0	3
One additional course from the following discipline areas is required:							
Art							
ART	116	Survey of American Art	3	0	0	0	3
Drama							
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3
Foreign Languages							
FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3
Humanities							
HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	2	2	0	0	3
HUM	161	Advanced Film Studies	2	2	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
Literature - Up to 6 SHC from the following:							
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Writers	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3

ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
Music							
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3
Philosophy							
PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Four courses from the following discipline areas are required. Note: at least one course must be a history course.							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
The following course is required:							
PSY	150	General Psychology	3	0	0	0	3
Choose one of the following courses:							
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
One additional course from the following discipline areas is required:							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
History							
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3

POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC) One of the following courses is required:							
BIO	110	Principles of Biology	3	3	0	0	4
OR							
BIO	111	General Biology I	3	3	0	0	4
Select one of the following courses:							
AST	111	Descriptive Astronomy	3	0	0	0	3
AND							
AST	111A	Descriptive Astronomy Lab	0	2	0	0	1
OR							
CHM	131	Introduction to Chemistry	3	0	0	0	3
AND							
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
OR							
CHM	151	General Chemistry I	3	3	0	0	4
OR							
PHY	110	Conceptual Physics	3	0	0	0	3
AND							
PHY	110A	Conceptual Physics - Lab	0	2	0	0	1
OR							
PHY	151	College Physics I	3	2	0	0	4
Mathematics (6 SHC) Two of the following courses are required:							
CIS	110	Introduction to Computers	2	2	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	161	College Algebra (or higher)	3	0	0	0	3

Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

Other Required Hours (20 SHC)

It is recommended that within the 20 semester hours of "Other Required Hours," pre-education students in Elementary Education select courses that will help meet a corollary studies area. These courses should be selected in conjunction with the requirements at each university, since available corollary studies may not be offered on each university campus. Corollary Studies are comprised of a minimum of 18 hours of community college or UNC campuses' coursework in a choice of four interdisciplinary areas: (1) diversity studies, (2) global issues, (3) the arts, or (4) math, science and technology. Satisfying the UNC Board of Governors' requirement for an academic concentration, corollary studies are appropriate for expanding and deepening the pre-service elementary teacher's knowledge, appreciation and skills in the areas appropriate to the elementary school classroom and curriculum. The following recommended courses in these corollary studies may be taken as general education or as "Other Required hours."

Recommended Courses for Corollary Studies Areas:

Diversity Studies:

A minimum 18-hour multidisciplinary area of corollary studies that increases the pre-service teacher's knowledge of, respect for, and skills in working with students, families, and communities of diverse abilities, languages, races, and cultural backgrounds. Select courses from a minimum of two and a maximum of three different fields (prefixes) as listed below:

Anthropology

ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3

Communication

COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3

Drama

DRA	126	Story Telling	3	0	0	0	3
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English

ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3

Geography

GEO	112	Cultural Geography	3	0	0	0	3
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History

HIS	226	The Civil War	3	0	0	0	3
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Humanities

HUM	122	Southern Culture	3	0	0	0	3
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Psychology

PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3

Religion

REL	110	World Religions	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3

Sociology

SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3

Languages

SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3

Universities may add diversity choices to this list with courses they have available and deem appropriate.

Global Issues:

A minimum 18-hour multidisciplinary Global Issues area of corollary studies that encompasses courses with a common theme of providing insight into the human condition in the world. The corollary studies area of Global Issues will increase the pre-service teacher's knowledge and understanding of the world in which we live and contemporary issues affecting

the world. Courses addressing a particular region in the world or courses about a particular historical period were not included. The perception of a global issue is subjective and courses included in this area may change over time. Select courses from a minimum of two and a maximum of three different fields (prefixes) as listed below:

Anthropology

ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3

Economics

ECO	252	Principles of Macroeconomics	3	0	0	0	3
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Geography

GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3

Humanities

HUM	110	Technology and Society	3	0	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3

Philosophy

PHI	240	Introduction to Ethics	3	0	0	0	3
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Political Science

POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3

Religion

REL	110	World Religions	3	0	0	0	3
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Sociology

SOC	220	Social Problems	3	0	0	0	3
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Universities may add global issues choices to this list with courses they have available and deem appropriate.

The Arts:

A minimum 18-hour area of corollary studies in the Arts will increase the pre-service teacher's knowledge and appreciation of the visual and performing arts and their history. Pre-service teachers who select this area of corollary studies will be prepared to use the Arts to further children's understanding of the world, of diverse cultures, and of multiple ways of constructing knowledge and expressing themselves.

Students will choose a minimum of eighteen hours of coursework from the approved lists. Their selections must be drawn from a minimum of two and a maximum of three categories/disciplines (prefixes) across the following two lists. Students may choose up to six hours of coursework from List II. The remainder of coursework (12-18 hours) must be from List I.

List I. Non-applied Courses (12 - 18 hours should be chosen from this list)**Art**

ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	116	Survey of American Art	3	0	0	0	3

Music

MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3

List II. Applied/Skilled/Ensemble Courses (only 6 hours may be chosen)

ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3

Drama						
DRA	111	Theatre Appreciation	3	0	0	3
DRA	112	Literature of the Theatre	3	0	0	3
DRA	122	Oral Interpretation	3	0	0	3
DRA	126	Story Telling	3	0	0	3
Music						
MUS	131	Chorus I	0	2	0	1
Universities may add art, dance, drama/theatre and music choices to this list with courses they have available and deem appropriate.						
Math, Science and Technology:						
A minimum 18-hour multidisciplinary area of corollary studies that increases the pre-service teacher's knowledge of, respect for, and skills in the areas of math, science and technology and their interconnectedness. Select courses from a minimum of two and a maximum of three different fields (prefixes) as listed below:						
Technology:						
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Intro. to Programming & Logic	2	3	0	3
HUM	110	Technology and Society	3	0	0	3
PHI	230	Introduction to Logic	3	0	0	3
Mathematics (math lab credit hours are not included in 18-hour concentration, e.g. 151A)						
MAT	140	Survey of Mathematics	3	0	0	3
MAT	151	Statistics I	3	0	0	3
MAT	161	College Algebra	3	0	0	3
MAT	175	Precalculus	4	0	0	4
MAT	263	Brief Calculus	3	0	0	3
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4
Science:						
AST	111	Descriptive Astronomy	3	0	0	3
AST	151	General Astronomy I	3	0	0	3
AST	152	General Astronomy II	3	0	0	3
AST	251	Observational Astronomy	1	3	0	2
BIO	110	Principles of Biology	3	3	0	4
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	163	Basic Anatomy & Physiology	4	2	0	5
BIO	168	Anatomy and Physiology I	3	3	0	4
BIO	169	Anatomy and Physiology II	3	3	0	4
BIO	250	Genetics	3	3	0	4
BIO	275	Microbiology	3	3	0	4
BIO	280	Biotechnology	2	3	0	3
CHM	131	Introduction to Chemistry	2	3	0	3
CHM	132	Organic and Biochemistry	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
PHY	110	Conceptual Physics	3	0	0	3
PHY	151	College Physics I	3	2	0	4
PHY	152	College Physics II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
PHY	252	General Physics II	3	3	0	4

Universities may add math, science and technology choices to this list with courses they have available and deem appropriate.

Select 2 SHC from the following:

MAT	151A	Statistics I - Lab	0	2	0	0	1
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements.

Receiving institutions may have additional requirements, prerequisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

History

Department: Liberal Arts and General Education

Award(s) Offered:

A1010H - [Associate in Arts Degree](#)

D1010H - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: [✉](mailto:ywilson@rowancc.edu)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in History. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in History.

Recommended Course Sequence :

Course Information:

		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following: (ENG 112 or ENG 113 is recommended to satisfy the second composition requirement.)							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3

Humanities/Fine Arts: (12 SHC)

Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary

humanities, literature, philosophy, and religion. **Note: at least one course must be a literature course.**

Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)						
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	251	Western World Literature I	3	0	0	3
ENG	252	Western World Literature II	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:						
Art						
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	116	Survey of American Art	3	0	0	3
Drama						
DRA	111	Theatre Appreciation	3	0	0	3
DRA	112	Literature of the Theatre	3	0	0	3
DRA	122	Oral Interpretation	3	0	0	3
DRA	126	Story Telling	3	0	0	3
Foreign Languages						
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3
Humanities						
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	160	Introduction to Film	3	0	0	3
HUM	161	Advanced Film Studies	3	0	0	3
HUM	211	Humanities I	3	0	0	3
HUM	212	Humanities II	3	0	0	3
Music						
MUS	110	Music Appreciation	3	0	0	3
MUS	113	American Music	3	0	0	3
MUS	210	History of Rock Music	3	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	3
Philosophy						
PHI	210	History of Philosophy	3	0	0	3
PHI	220	Western Philosophy I	3	0	0	3
PHI	221	Western Philosophy II	3	0	0	3

PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. Note: at least one course must be a history course.							
History (6 SHC) - Select one of the following history sequences:							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
OR							
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
Students must select two courses (6 SHC) from at least two of the following discipline areas:							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3

SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC)							
Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:							
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
Mathematics (6 SHC)							
Select at least one course in introductory mathematics. The other course may be selected from among other quantitative subjects, such as computer science and statistics.							
Introductory Mathematics (Select one:)							
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4
Select one course from the following:							
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	263	Brief Calculus	3	0	0	0	3
MAT	271	Calculus I	3	2	0	0	4
Students should check with the university of their choice to make sure that they complete the appropriate math course.							
<i>A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.</i>							
Other Required Hours (20 SHC)							
A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required. ACA and COE coursework may NOT be used to satisfy the minimum requirement of 20 SHC. (HIS 131 and HIS 132 are recommended.)							
ACC	120	Principles of Financial Accounting	3	2	0	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
ANT	240A	Archaeology Field Lab	0	4	0	0	2
ANT	245	World Prehistory	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship I	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3

ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3
AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
AST	251	Observational Astronomy	1	3	0	0	2
BIO	110	Principles of Biology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
BIO	168	Anatomy and Physiology I	3	3	0	0	4
BIO	169	Anatomy and Physiology II	3	3	0	0	4
BIO	250	Genetics	3	3	0	0	4
BIO	275	Microbiology	3	3	0	0	4
BIO	280	Biotechnology	2	3	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
CHM	163	Analytical Chemistry	3	4	0	0	5
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
GEO	121	North Carolina Geography	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3

HIS	163	The World Since 1945	3	0	0	0	3
HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
PHY	110	Conceptual Physics	3	0	0	0	3
PHY	110A	Conceptual Physics - Lab	0	2	0	0	1
POL	130	State & Local Government	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.


TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM : 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Middle Grades Education

Department: Liberal Arts & General Education

Award(s) Offered:

A1011A - [Associate in Arts Degree](#)

D1011A - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: ywilson@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Middle Grades Education . Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary and admission is competitive across the several programs in Middle Grades Education. Minimum statewide requirements are:

1. Minimum 2.5 grade-point average on a 4.0 scale.
2. Satisfactory passing scores as established by the State Board of Education on PRAXIS I – PPST- Reading; PPST- Writing; PPST-Math. For information and registration for PRAXIS, contact www.ets.org/praxis or a counselor in Student Services.

Receiving institutions may have additional requirements, prerequisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							

ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from the following discipline areas. Note: at least one course must be a literature course.							
Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)							
ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
The following course is required to substitute for 3 SHC of Humanities/Fine Arts.							
COM	231	Public Speaking	3	0	0	0	3
One of the following courses is required:							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
MUS	110	Music Appreciation	3	0	0	0	3
One additional course from the following discipline areas is required:							
Humanities							
HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	2	2	0	0	3
HUM	161	Advanced Film Studies	2	2	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
Literature - Up to 6 SHC from the following:							
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Writers	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
Philosophy							
PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							

Social/Behavioral Sciences (12 SHC)Four courses from the following discipline areas are required. **Note: at least one course must be a history course.****History (select one course from the following)**

HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3

The following course is required:

PSY	150	General Psychology	3	0	0	0	3
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Choose one of the following courses:

SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3

One additional course from the following discipline areas is required:**Anthropology**

ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1

Economics

ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3

Geography

GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3

History

HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3

Political Science

POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3

Psychology

PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3

Sociology

SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3

Natural Sciences/Mathematics (14 SHC)**Natural Sciences (8 SHC)** One of the following courses is required:

BIO	110	Principles of Biology	3	3	0	0	4
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OR

BIO	111	General Biology I	3	3	0	0	4
Select one of the following courses:							
CHM	131	Introduction to Chemistry	3	0	0	0	3
AND							
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
OR							
CHM	151	General Chemistry I	3	3	0	0	4
OR							
PHY	110	Conceptual Physics	3	0	0	0	3
AND							
PHY	110A	Conceptual Physics - Lab	0	2	0	0	1
OR							
PHY	151	College Physics I	3	2	0	0	4
Mathematics (6 SHC) The following courses are required:							
CIS	110	Introduction to Computers	2	2	0	0	3
MAT	161	College Algebra (or higher)	3	0	0	0	3
Students should check with the university of their choice to make sure that they complete the appropriate math course.							
A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.							
<i>A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.</i>							
Other Required Hours (20 SHC) A minimum of 20 SHC of college transfer general education, elective, and /or pre-major courses is required.							
<ul style="list-style-type: none"> At certain UNC institutions, EDU 221 Children with Exceptionalities may fulfill major requirements; at a majority of institutions the courses will transfer as free electives. Students should check with the university to which they intend to transfer for the local transfer policy regarding EDU 221. It is recommended that within the 20 semester hours of "Other Required Hours" pre-education students in Middle Grades Education select courses that will help meet two of the four corollary studies areas (Mathematics, Social Studies, Science, and Language Arts) in order to be consistent with NC licensure areas. These courses should be selected in conjunction with the requirements at each university, since available academic concentrations and their specific requirements differ on each campus. Some institutions of higher education require that the two areas be Science and Mathematics or Social Studies and Language Arts. Others allow the student to choose any two of the four areas. It is recommended the pre-major Middle Grades Education should not choose additional courses in Art, Communications, Foreign Languages, Music, or Physical Education. These courses will not assist students in completing their major. 							
Recommended Courses for Typical Academic Concentrations:							
Science: Up to 12 SHC from the following:							
AST	111	Descriptive Astronomy	3	0	0	0	3
AST	151	General Astronomy I	3	0	0	0	3
AST	152	General Astronomy II	3	0	0	0	3
BIO	110	Principles of Biology	3	3	0	0	4
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
Language Arts - Up to 12 SHC from the following:							
ENG	231	American Literature I	3	0	0	0	3

ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
Social Studies - Up to 12 SHC from the following:							
ECO	151	Survey of Economics	3	0	0	0	3
OR							
ECO	251	Principles of Microeconomics	3	0	0	0	3
GEO	111	World Regional Geography	3	0	0	0	3
OR							
GEO	121	North Carolina Geography	3	0	0	0	3
HIS	111	World Civilizations I	3	0	0	0	3
AND							
HIS	112	World Civilizations II	3	0	0	0	3
OR							
HIS	121	Western Civilization I	3	0	0	0	3
AND							
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
AND							
HIS	132	American History II	3	0	0	0	3
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	130	State & Local Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
Mathematics - Up to 12 SHC from the following:							
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	175	Precalculus	4	0	0	0	4
MAT	271	Calculus I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM : 65

Students must meet the receiving university's foreign language and/or health and physical education requirements.

Receiving institutions may have additional requirements, prerequisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Nursing

Department: Liberal Arts and General Education

Award(s) Offered:

A1010I - [Associate in Arts Degree](#)

D1010I - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Cathy Norris, Director of Nursing**

Phone: [704-216-3701](tel:704-216-3701) / Email: cnorris@rowancc.edu

Description:

This program is for students who intend to transfer to a four-year college or university for a BSN (Bachelor of Science in Nursing) degree. RCCC also offers the following nursing programs: [Associate Degree Nursing \(RN\)](#), [LPN to RN Completion Program](#), and [Practical Nursing \(LPN\)](#).

This program is designed for students who intend to major in Nursing. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Admission across the several programs in Nursing is competitive. Other professional admission requirements may be designated by individual programs. Grade-point average requirements vary, and admission is competitive across the several programs in Nursing.

Recommended Course Sequence :

Course Information:

		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3

ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							
Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)							
ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Writers	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:							
Art							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	116	Survey of American Art	3	0	0	0	3
Drama							
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3
Foreign Languages							
FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3
Humanities							
HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	3	0	0	0	3
HUM	161	Advanced Film Studies	3	0	0	0	3
HUM	211	Humanities I	2	2	0	0	3
HUM	212	Humanities II	2	2	0	0	3
Music							
MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3

Philosophy

Philosophy

PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3

Religion

REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3

Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)

COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3

Social/Behavioral Sciences (12 SHC)

Four courses from at the following discipline areas are required. One history course is required.

History (select one course from the following)

HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3

The following courses (9 SHC) are required:

PSY	150	General Psychology	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3

Natural Sciences/Mathematics (14 SHC)**Natural Sciences (8 SHC)**

The following courses are required:

CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4

OR

CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4

Mathematics (6 SHC)

Select at least one course in introductory mathematics.

Introductory Mathematics (Select one:)

MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4

The following course is required:

MAT	151	Statistics I	3	0	0	0	3
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Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

Other Required Hours (20 SHC)

A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.

The following courses (18 SHC) are required:

BIO	168	Anatomy and Physiology I	3	3	0	0	4
BIO	169	Anatomy and Physiology II	3	3	0	0	4

BIO	275	Microbiology	3	3	0	0	4
PSY	281	Abnormal Psychology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
Select 2 SHC from the following:							
MAT	151A	Statistics I - Lab	0	2	0	0	1
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
<i>In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.</i>							
TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65							
<i>Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.</i>							

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Political Science

Department: Liberal Arts and General Education

Award(s) Offered:

A1010K - [Associate in Arts Degree](#)

D1010K - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: [✉](mailto:ywilson@rowancc.edu)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Political Science. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Political Science.

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							

Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)						
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	251	Western World Literature I	3	0	0	3
ENG	252	Western World Literature II	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas: (One of the following course sequences is recommended: ASL 111 & ASL 112; FRE 111 & FRE 112; GER 111 & GER 112; or SPA 111 & SPA 112.)						
Art						
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	116	Survey of American Art	3	0	0	3
Drama						
DRA	111	Theatre Appreciation	3	0	0	3
DRA	112	Literature of the Theatre	3	0	0	3
DRA	122	Oral Interpretation	3	0	0	3
DRA	126	Story Telling	3	0	0	3
Foreign Languages						
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3
Humanities						
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	160	Introduction to Film	3	0	0	3
HUM	161	Advanced Film Studies	3	0	0	3
HUM	211	Humanities I	3	0	0	3
HUM	212	Humanities II	3	0	0	3
Music						
MUS	110	Music Appreciation	3	0	0	3
MUS	113	American Music	3	0	0	3
MUS	210	History of Rock Music	3	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	3
Philosophy						
PHI	210	History of Philosophy	3	0	0	3
PHI	220	Western Philosophy I	3	0	0	3

PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses is recommended to substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. Note: at least one course must be a history course.							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Students must select three courses (9 SHC) from at least two of the following discipline areas: (note recommendations)							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
Economics (One of the following is recommended)							
ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Geography (One of the following is recommended)							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
Psychology (PSY 150 is recommended)							
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Sociology (One of the following is recommended: SOC 210, SOC 220, or SOC 225.)							
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3

SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC)							
Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:							
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4
Mathematics (6 SHC)							
Select at least one course in introductory mathematics. The other course may be selected from among other quantitative subjects, such as computer science and statistics.							
Introductory Mathematics (Select one:)							
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4
Select one course from the following: (CIS 110 is recommended)							
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	263	Brief Calculus	3	0	0	0	3
MAT	271	Calculus I	3	2	0	0	4
Students should check with the university of their choice to make sure that they complete the appropriate math course.							
<i>A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.</i>							
Other Required Hours (20 SHC)							
A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.							
The following course is required:							
POL	120	American Government	3	0	0	0	3
Select 17 SHC from the following courses.							
(The following courses are recommended: POL 210 and POL 220. One of these courses are recommended: ECO 151, 251, or 252.)							
ACC	120	Principles of Financial Accounting	3	2	0	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
ANT	240A	Archaeology Field Lab	0	4	0	0	2
ANT	245	World Prehistory	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3

ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship I	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3
AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
AST	251	Observational Astronomy	1	3	0	0	2
BIO	110	Principles of Biology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
BIO	250	Genetics	3	3	0	0	4
BIO	280	Biotechnology	2	3	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CHM	263	Analytical Chemistry	3	4	0	0	5
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	120	Intro. to Interpersonal Comm	3	0	0	0	3
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
GEO	121	North Carolina Geography	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3

HIS	163	The World Since 1945	3	0	0	0	3
HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
POL	130	State & Local Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM : 64-65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

Rowan-Cabarrus Community College

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Liberal Arts & General Education Department

Psychology

Department: Liberal Arts & General Education

Award(s) Offered:

A1010L - [Associate in Arts Degree](#)

D1010L - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: [✉](mailto:ywilson@rowancc.edu)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Psychology. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Psychology.

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							

Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)						
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	251	Western World Literature I	3	0	0	3
ENG	252	Western World Literature II	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:						
Art						
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	116	Survey of American Art	3	0	0	3
Drama						
DRA	111	Theatre Appreciation	3	0	0	3
DRA	112	Literature of the Theatre	3	0	0	3
DRA	122	Oral Interpretation	3	0	0	3
DRA	126	Story Telling	3	0	0	3
Foreign Languages						
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3
Humanities						
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	160	Introduction to Film	3	0	0	3
HUM	161	Advanced Film Studies	3	0	0	3
HUM	211	Humanities I	2	2	0	3
HUM	212	Humanities II	2	2	0	3
Music						
MUS	110	Music Appreciation	3	0	0	3
MUS	113	American Music	3	0	0	3
MUS	210	History of Rock Music	3	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	3
Philosophy						
PHI	210	History of Philosophy	3	0	0	3
PHI	220	Western Philosophy I	3	0	0	3
PHI	221	Western Philosophy II	3	0	0	3
PHI	230	Introduction to Logic	3	0	0	3

PHI	240	Introduction to Logic	3	0	0	0	0
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. Note: at least one course must be a history course.							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Required Psychology course:							
PSY	150	General Psychology	3	0	0	0	3
Students must select two courses (6 SHC) from at least two of the following discipline areas:							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3

SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3

Natural Sciences/Mathematics (14 SHC)**Natural Sciences (8 SHC)**

Select from the following biological and physical science disciplines:

Select one course from the following:

BIO	110	Principles of Biology	3	3	0	0	4
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OR

BIO	111	General Biology I	3	3	0	0	4
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Select one course from the following: (Labs must be taken as indicated)

AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	151	General Chemistry I	3	3	0	0	4
PHY	110	Conceptual Physics	3	0	0	0	3
PHY	110A	Conceptual Physics - Lab	0	2	0	0	1
PHY	151	College Physics I	3	2	0	0	4

Mathematics (6 SHC)

Select at least one course in introductory mathematics. The other course may be selected from among other quantitative subjects, such as computer science and statistics.

Introductory Mathematics (Select one:)

MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4

Select one course from the following to satisfy the second mathematics requirement:

CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	263	Brief Calculus	3	0	0	0	3
MAT	271	Calculus I	3	2	0	0	4

Students should check with the university of their choice to make sure that they complete the appropriate math course.*A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.***Other Required Hours (20 SHC)**

A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.

ACC	120	Principles of Financial Accounting	3	2	0	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
ANT	240A	Archaeology Field Lab	0	4	0	0	2
ANT	245	World Prehistory	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3

ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship I	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
AST	251	Observational Astronomy	1	3	0	0	2
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
BIO	168	Anatomy and Physiology I	3	3	0	0	4
BIO	169	Anatomy and Physiology II	3	3	0	0	4
BIO	250	Genetics	3	3	0	0	4
BIO	275	Microbiology	3	3	0	0	4
BIO	280	Biotechnology	2	3	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
CHM	263	Analytical Chemistry	3	4	0	0	5
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3

LITC	217	Literature by Women	3	0	0	0	3
GEO	121	North Carolina Geography	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3
HIS	163	The World Since 1945	3	0	0	0	3
HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4
POL	130	State & Local Government	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3
<i>In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.</i>							
TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65							
<i>Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.</i>							

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Social Sciences and Secondary Education

Department: Liberal Arts & General Education**Award(s) Offered:**A1010M - [Associate in Arts Degree](#)D1010M - [Associate in Arts Diploma](#)

For additional information regarding this program,
contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: [✉](mailto:ywilson@rowancc.edu)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Social Science Secondary Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Social Science Secondary Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I and II. For information and registration for PRAXIS, contract www.ets.org/praxis or a counselor in Student Services.

Recommended Course Sequence :**Course Information:**

		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following: (ENG 112 or ENG 113 is recommended)							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3

ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							
Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)							
ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Writers	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:							
Art							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	116	Survey of American Art	3	0	0	0	3
Drama							
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3
Foreign Languages							
FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3
Humanities							
HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	3	0	0	0	3
HUM	161	Advanced Film Studies	3	0	0	0	3
HUM	211	Humanities I	2	2	0	0	3
HUM	212	Humanities II	2	2	0	0	3
Music							
MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3
Philosophy							
PHI	210	History of Philosophy	2	0	0	0	2

PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
The following courses are required (6 SHC):							
POL	120	American Government	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
History (select one the following course sequences (6 SHC) (HIS 111 and HIS 112 are recommended.)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
OR							
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC)							
Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:							
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4
Mathematics (6 SHC)							
Select at least one course in introductory mathematics. The other course may be selected from among other quantitative subjects, such as computer science and statistics.							
Introductory Mathematics (Select one:)							
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4

Select one course from the following:						
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	3
MAT	151	Statistics I	3	0	0	3
MAT	263	Brief Calculus	3	0	0	3
MAT	271	Calculus I	3	2	0	4
Students should check with the university of their choice to make sure that they complete the appropriate math course.						
A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.						
Other Required Hours (20 SHC)						
A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.						
The following courses are required:						
ECO	151	Survey of Economics	3	0	0	3
GEO	111	World Regional Geography	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
Select 8 SHC from the following courses:						
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ANT	210	General Anthropology	3	0	0	3
ANT	230	Physical Anthropology	3	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	1
ANT	240	Archaeology	3	0	0	3
ANT	240A	Archaeology Field Lab	0	4	0	2
ANT	245	World Prehistory	3	0	0	3
ART	121	Design I	0	6	0	3
ART	122	Design II	0	6	0	3
ART	131	Drawing I	0	6	0	3
ART	132	Drawing II	0	6	0	3
ART	135	Figure Drawing I	0	6	0	3
ART	212	Gallery Assistantship I	0	2	0	1
ART	214	Portfolio and Resumé	0	2	0	1
ART	235	Figure Drawing II	0	6	0	3
ART	240	Painting I	0	6	0	3
ART	241	Painting II	0	6	0	3
ART	244	Watercolor	0	6	0	3
ART	261	Photography I	0	6	0	3
ART	264	Digital Photography I	1	4	0	3
ART	265	Digital Photography II	1	4	0	3
ART	288	Studio	0	6	0	3
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	1
AST	251	Observational Astronomy	1	3	0	2
BIO	110	Principles of Biology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	5
BIO	250	Genetics	3	3	0	4
BIO	275	Microbiology	3	3	0	4
BIO	280	Biotechnology	2	3	0	3

BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CHM	263	Analytical Chemistry	3	4	0	0	5
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	121	North Carolina Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3
HIS	163	The World Since 1945	3	0	0	0	3
HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	272	Calculus II	3	2	0	0	4
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1

POL	110	Introduction to Political Science	3	0	0	0	3
POL	130	State & Local Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM : 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Social Sciences and Secondary Education

Department: Liberal Arts & General Education**Award(s) Offered:**A1010M - [Associate in Arts Degree](#)D1010M - [Associate in Arts Diploma](#)

For additional information regarding this program,
contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: YWilson@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Social Science Secondary Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Social Science Secondary Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I and II. For information and registration for PRAXIS, contract www.ets.org/praxis or a counselor in Student Services.

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following: (ENG 112 or ENG 113 is recommended)							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3

ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							
Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)							
ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Writers	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:							
Art							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	116	Survey of American Art	3	0	0	0	3
Drama							
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3
Foreign Languages							
FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3
Humanities							
HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	3	0	0	0	3
HUM	161	Advanced Film Studies	3	0	0	0	3
HUM	211	Humanities I	2	2	0	0	3
HUM	212	Humanities II	2	2	0	0	3
Music							
MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3
Philosophy							
PHI	210	History of Philosophy	2	0	0	0	2

PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
The following courses are required (6 SHC):							
POL	120	American Government	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
History (select one the following course sequences (6 SHC) (HIS 111 and HIS 112 are recommended.)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
OR							
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC)							
Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:							
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4
Mathematics (6 SHC)							
Select at least one course in introductory mathematics. The other course may be selected from among other quantitative subjects, such as computer science and statistics.							
Introductory Mathematics (Select one:)							
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4

Select one course from the following:						
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	3
MAT	151	Statistics I	3	0	0	3
MAT	263	Brief Calculus	3	0	0	3
MAT	271	Calculus I	3	2	0	4
Students should check with the university of their choice to make sure that they complete the appropriate math course.						
A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.						
Other Required Hours (20 SHC)						
A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.						
The following courses are required:						
ECO	151	Survey of Economics	3	0	0	3
GEO	111	World Regional Geography	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
Select 8 SHC from the following courses:						
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ANT	210	General Anthropology	3	0	0	3
ANT	230	Physical Anthropology	3	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	1
ANT	240	Archaeology	3	0	0	3
ANT	240A	Archaeology Field Lab	0	4	0	2
ANT	245	World Prehistory	3	0	0	3
ART	121	Design I	0	6	0	3
ART	122	Design II	0	6	0	3
ART	131	Drawing I	0	6	0	3
ART	132	Drawing II	0	6	0	3
ART	135	Figure Drawing I	0	6	0	3
ART	212	Gallery Assistantship I	0	2	0	1
ART	214	Portfolio and Resumé	0	2	0	1
ART	235	Figure Drawing II	0	6	0	3
ART	240	Painting I	0	6	0	3
ART	241	Painting II	0	6	0	3
ART	244	Watercolor	0	6	0	3
ART	261	Photography I	0	6	0	3
ART	264	Digital Photography I	1	4	0	3
ART	265	Digital Photography II	1	4	0	3
ART	288	Studio	0	6	0	3
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	1
AST	251	Observational Astronomy	1	3	0	2
BIO	110	Principles of Biology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	5
BIO	250	Genetics	3	3	0	4
BIO	275	Microbiology	3	3	0	4
BIO	280	Biotechnology	2	3	0	3

BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CHM	263	Analytical Chemistry	3	4	0	0	5
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	121	North Carolina Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3
HIS	163	The World Since 1945	3	0	0	0	3
HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	272	Calculus II	3	2	0	0	4
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1

POL	110	Introduction to Political Science	3	0	0	0	3
POL	130	State & Local Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM : 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Social Work

Department: Liberal Arts & General Education

Award(s) Offered:

A1010Q - [Associate in Arts Degree](#)

D1010Q - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: [✉](#)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Social Work. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Social Work.

Recommended Course Sequence :

Course Information:

		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							

Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)						
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	251	Western World Literature I	3	0	0	3
ENG	252	Western World Literature II	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:						
Art						
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	116	Survey of American Art	3	0	0	3
Drama						
DRA	111	Theatre Appreciation	3	0	0	3
DRA	112	Literature of the Theatre	3	0	0	3
DRA	122	Oral Interpretation	3	0	0	3
DRA	126	Story Telling	3	0	0	3
Foreign Languages						
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3
Humanities						
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	160	Introduction to Film	3	0	0	3
HUM	161	Advanced Film Studies	3	0	0	3
HUM	211	Humanities I	2	2	0	3
HUM	212	Humanities II	2	2	0	3
Music						
MUS	110	Music Appreciation	3	0	0	3
MUS	113	American Music	3	0	0	3
MUS	210	History of Rock Music	3	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	3
Philosophy						
PHI	210	History of Philosophy	3	0	0	3
PHI	220	Western Philosophy I	3	0	0	3
PHI	221	Western Philosophy II	3	0	0	3
PHI	230	Introduction to Logic	3	0	0	3

PHI	240	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Four courses from the following discipline areas are required. One history course is required.							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
The following courses are required:							
POL	120	American Government	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
Natural Sciences/Mathematics (14 SHC)							
Natural Sciences (8 SHC) (The following courses are required.)							
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
Mathematics (6 SHC)							
One of the following courses is required:							
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4
Select one course from the following to satisfy the second mathematics requirement::							
CIS	110	Introduction to Computers	2	2	0	0	3
MAT	151	Statistics I	3	0	0	0	3
Students should check with the university of their choice to make sure that they complete the appropriate math course.							
A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.							
Other Required Hours (20 SHC)							
A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.							
Select from the following 13 recommended courses:							
ANT	210	General Anthropology	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	242	Abnormal Psychology	3	0	0	0	3

PSY	281	Abnormal Psychology	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
<i>In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.</i>							
TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65							
<i>Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.</i>							

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Liberal Arts & General Education Department

Sociology

Department: Liberal Arts & General Education

Award(s) Offered:

A1010N - [Associate in Arts Degree](#)

D1010N - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: [✉](#)

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Sociology. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary, and admission is competitive across the several programs in Sociology.

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following: (ENG 112 is recommended)							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							

Literature (3 SHC) - Select one course from the following (Speech/Communication may not substitute for the literature requirement.)						
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	251	Western World Literature I	3	0	0	3
ENG	252	Western World Literature II	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
Select three courses (9 SHC) from at least two of the following discipline areas:						
Art						
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	116	Survey of American Art	3	0	0	3
Drama						
DRAW	111	Theatre Appreciation	3	0	0	3
DRAW	112	Literature of the Theatre	3	0	0	3
DRAW	122	Oral Interpretation	3	0	0	3
DRAW	126	Story Telling	3	0	0	3
Foreign Languages						
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3
Humanities						
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	160	Introduction to Film	3	0	0	3
HUM	161	Advanced Film Studies	3	0	0	3
HUM	211	Humanities I	2	2	0	3
HUM	212	Humanities II	2	2	0	3
Music						
U.S.	110	Music Appreciation	3	0	0	3
U.S.	113	American Music	3	0	0	3
U.S.	210	History of Rock Music	3	0	0	3
U.S.	213	Opera and Musical Theatre	3	0	0	3
Philosophy						
PHI	210	History of Philosophy	3	0	0	3
PHI	220	Western Philosophy I	3	0	0	3
PHI	221	Western Philosophy II	3	0	0	3
PHI	230	Introduction to Logic	3	0	0	3

PHI	240	Introduction to Logic	3	0	0	0	0
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (12 SHC)							
Select four courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. Note: at least one course must be a history course.							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Sociology (The following course is required)							
SOC	210	Introduction to Sociology	3	0	0	0	3
Select one of the following SOC courses:							
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
Students must select one course (3 SHC) from following courses:							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	150	General Psychology	3	0	0	0	3

PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3

Natural Sciences/Mathematics (14 SHC)**Natural Sciences (8 SHC)**

Select two courses (including accompanying laboratory work) (AST, BIO, CHM, or PHY) from the following biological and physical science disciplines:

AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I - Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II - Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4

Mathematics (6 SHC)

Select at least one course in introductory mathematics.

Introductory Mathematics (Select one:)

MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	161	College Algebra	3	0	0	0	3
MAT	175	Precalculus (or higher)	4	0	0	0	4

The following mathematics course is required:

MAT	151	Statistics I (or higher)	3	0	0	0	3
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Students should check with the university of their choice to make sure that they complete the appropriate math course.

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

Other Required Hours (20 SHC)

A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.

ACC	120	Principles of Financial Accounting	3	2	0	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
ANT	240A	Archaeology Field Lab	0	4	0	0	2
ANT	245	World Prehistory	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship I	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3

ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3
AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
AST	251	Observational Astronomy	1	3	0	0	2
BIO	110	Principles of Biology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
BIO	168	Anatomy and Physiology I	3	3	0	0	4
BIO	169	Anatomy and Physiology II	3	3	0	0	4
BIO	250	Genetics	3	3	0	0	4
BIO	275	Microbiology	3	3	0	0	4
BIO	280	Biotechnology	2	3	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CHM	263	Analytical Chemistry	3	4	0	0	5
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	0	3
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
GEO	121	North Carolina Geography	3	0	0	0	3
GOOD	110	Personal Health/Wellness	3	0	0	0	3
HIS	163	The World Since 1945	3	0	0	0	3

HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
YOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	263	Brief Calculus	3	0	0	0	3
MAT	271	Calculus I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
U.S.	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
POL	130	State & Local Government	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

Rowan-Cabarrus Community College

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Liberal Arts & General Education Department

Special Education

Department: Liberal Arts & General Education

Award(s) Offered:

A1010Z - [Associate in Arts Degree](#)

D1010Z - [Associate in Arts Diploma](#)

For additional information regarding this program, contact **Yolanda Wilson**

Phone: [704-216-3750](tel:704-216-3750) / Email: ywilson@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

This program is designed for students who intend to major in Special Education. Students who successfully complete this course of study and who meet the requirements for admission to the university are eligible to apply for admission to the major with junior standing.

Application to a University:

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree as listed at: www.northcarolina.edu/content.php/aa/planning/traditional.htm. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major:

Grade-point average requirements vary and admission is competitive across the several programs in Special Education. Minimum statewide requirements are:

1. Minimum 2.5 grade-point average on a 4.0 scale.
2. Satisfactory passing scores as established by the State Board of Education on PRAXIS I – PPST- Reading; PPST- Writing; PPST-Math or other SBE approved options. For information and registration for PRAXIS, contact www.ets.org/praxis or a counselor in Student Services.

Receiving institutions may have additional requirements, prerequisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

Recommended Course Sequence :

Course Information:							
		Title	Class	Lab	Clinical	Work Exp.	Credits
The following success and study skills course (one semester hour credit) must be taken in the first semester by all students pursuing this Pre-Major in the Associate in Arts Degree. This course may not transfer to a senior institution.							
ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							

ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (12 SHC)							
Select four courses from the following discipline areas. Note: at least one course must be a literature course.							
Literature (3 SHC) - Select one course from the following:							
ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
One of the following is required (3 SHC):.							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
MUS	110	Music Appreciation	3	0	0	0	3
The following course is required to substitute for 3 SHC of Humanities/Fine Arts:							
COM	231	Public Speaking	3	0	0	0	3
Select one additional course (3 SHC) from the following discipline areas: art, foreign languages, interdisciplinary humanities, literature, music, philosophy, and religion.							
Art							
ART	111	Art Appreciation	3	0	0	0	3
ART	116	Survey of American Art	3	0	0	0	3
Drama							
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3
Foreign Languages							
FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3
Humanities							
HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	2	2	0	0	3
HUM	161	Advanced Film Studies	2	2	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
Literature							
ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3

ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Writers	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
Music							
MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3
Philosophy							
PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Social/Behavioral Sciences (12 SHC) Four courses from three discipline areas are required. .							
History (select one course from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
Psychology (the following course is required)							
PSY	150	General Psychology	3	0	0	0	3
Sociology (one of the following course is required)							
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
Select one additional course (3 SHC) from the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3

History						
HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
Political Science						
POL	110	Introduction to Political Science	3	0	0	3
POL	120	American Government	3	0	0	3
POL	210	Comparative Government	3	0	0	3
POL	220	International Relations	3	0	0	3
Psychology						
PSY	237	Social Psychology	3	0	0	3
PSY	239	Psychology of Personality	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
Sociology						
SOC	210	Introduction to Sociology	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	3
SOC	240	Social Psychology	3	0	0	3
Natural Sciences/Mathematics (14 SHC)						
Natural Sciences (8 SHC) One of the following courses is required:						
Select one:						
BIO	110	Principles of Biology	3	3	0	4
OR						
BIO	111	General Biology I	3	3	0	4
Select one:						
CHM	131	Introduction to Chemistry	3	0	0	3
AND						
CHM	131A	Introduction to Chemistry - Lab	0	3	0	1
OR						
CHM	151	General Chemistry I	3	3	0	4
OR						
PHY	110	Conceptual Physics	3	0	0	3
AND						
PHY	110A	Conceptual Physics - Lab	0	3	0	3
OR						
PHY	151	College Physics I	3	2	0	4
Mathematics (6 SHC) Two of the following courses are required:						
CIS	110	Introduction to Computers	2	2	0	3
MAT	140	Survey of Mathematics	3	0	0	3
MAT	161	College Algebra (or higher)	3	0	0	3
Students should check with the university of their choice to make sure that they complete the appropriate math course.						
A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.						
Other Required Hours (20 SHC) A minimum of 20 SHC of college transfer general education, elective, and /or pre-major courses is required						

major courses is required.

- At certain UNC institutions, EDU 221 Children with Exceptionalities may fulfill major requirements; at a majority of institutions this course will transfer only as a free elective. Students should check with the university for the local transfer policy regarding EDU 221 Children with Exceptionalities.
- It is recommended that with the 20 semester hours of "Other Required Hours" pre-major students in Special Education should select one of the following options:
 1. Elective Option - 20 semester hours of approved college transfer courses
 2. English Option - 12 semester hours in English beyond general education requirements
 3. Mathematics/Natural Sciences Option - 12 semester hours in Mathematics or Natural Sciences beyond general education requirements.
 4. Foreign Language Option - 12 semester hours in Foreign Language beyond general education requirements

ACC	120	Principles of Financial Accounting	3	2	0	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
ANT	240A	Archaeology Field Lab	0	4	0	0	2
ANT	245	World Prehistory	3	0	0	0	3
ART	121	Design I	0	7	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship I	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3
AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy - Lab	0	2	0	0	1
AST	251	Observational Astronomy	1	3	0	0	2
BIO	110	Principles of Biology	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology - Lab	0	3	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
BIO	168	Anatomy and Physiology I	3	3	0	0	4
BIO	169	Anatomy and Physiology II	3	3	0	0	4
BIO	250	Genetics	3	3	0	0	4
BIO	275	Microbiology	3	3	0	0	4
BIO	280	Biotechnology	2	3	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	263	Analytical Chemistry	3	4	0	0	5
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro. to Programming & Logic	2	2	0	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	2	0	0	0	2

CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	110	Introduction to Computers	2	2	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	235	Survey of Film as Literature	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
GEO	121						
		North Carolina Geography	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3
HIS	163	The World Since 1945	3	0	0	0	3
HIS	226	The Civil War	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
MAT	175	Precalculus	4	0	0	0	4
MAT	271	Calculus I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
POL	130	State & Local Government	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3

PSY	231	Forensic Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
PSY	259	Human Sexuality	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3
SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3

In addition to the above, any courses not taken to satisfy the general education core requirement may be used to fulfill the other required hours' requirement of 20 SHC.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

Students must meet the receiving university's foreign language and/or health and physical education requirements.

Receiving institutions may have additional requirements, prerequisites, and/or proficiencies. Since these vary at receiving institutions, students should review the admission to teacher education requirements for the institution(s) they anticipate attending.

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Accounting

Department: Liberal Arts and General Education

Award(s) Offered:

A25100 - [Associate in Applied Science Degree](#)

D25100 - [Diploma Program](#)

C25100 - [Certificate Programs](#)

For additional information regarding this program, contact **Program Head Robin Turner**
Phone: [704-216-3789](tel:704-216-3789) / Email: rtur@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

The 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" and technology resources, accountants assemble and analyze, process and communicate essential information about financial operations.

In addition to course work in accounting principles, theories, and practice, students will study business law, finance, management, and economics. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry-level accounting positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies. With work experience and additional education, an individual may advance in the accounting profession.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
■	ACC 120	Principles of Financial Accounting	3	2	0	0	4
■	BUS 115	Business Law I	3	0	0	0	3
■	CIS 110	Introduction To Computers	2	2	0	0	3
	ENG 111	Expository Writing	3	0	0	0	3
	MAT 140	Survey of Mathematics	3	0	0	0	3
		OR					
	MAT 161	College Algebra	3	0	0	0	3
		OR					
	MAT 175	PreCalculus	4	0	0	0	4
Total			14-15	6	0	0	17-18
First Year (Spring)							

■	ACC	121	Principles of Managerial Accounting	3	2	0	0	4
■	ACC	129	Individual Income Taxes	2	2	0	0	3
	ACC	140	Payroll Accounting	1	2	0	0	2
	ACC	150	Accounting Software Applications	1	2	0	0	2
■	ACC	220	Intermediate Accounting I	3	2	0	0	4
	ENG	114	Professional Research & Reporting	3	0	0	0	3
Total				13	10	0	0	18

First Year (Summer)

	PSY	150	General Psychology	3	0	0	0	3
	---	---	Humanities / Fine Arts Elective	3	0	0	0	3
Total				6	0	0	0	6

Second Year (Fall)

	ACC	221	Intermediate Accounting II	3	2	0	0	4
	ACC	225	Cost Accounting	3	0	0	0	3
	ACC	240	Government & Non-Profit Accounting	3	0	0	0	3
	BUS	137	Principles of Management	3	0	0	0	3
	COM	110	Introduction to Communication	3	0	0	0	3
OR								
	COM	231	Public Speaking	3	0	0	0	3
	---	---	Major Elective*	0-3	2-4	0	0-30	3
Total				15-18	2-4	0	0-30	19

Second Year (Spring)

	ACC	227	Practices in Accounting	3	0	0	0	3
	ACC	250	Advanced Accounting	3	0	0	0	3
	ACC	269	Auditing & Assurance Services	3	0	0	0	3
■	ECO	251	Principles of Microeconomics	3	0	0	0	3
OR								
■	ECO	252	Principles of Macroeconomics	3	0	0	0	3
	---	---	Major Elective*	0-3	2-4	0	0-30	3
Total				15-18	0-4	0	0-30	15

Total Semester Hours Credit (SHC) in Program:

75-76

■ This is a Core Course and cannot be substituted.

*Major Electives:

Select 6 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
ACC	132	NC Business Taxes	2	0	0	0	2
ACC	149	Intro. to Accounting Spreadsheets	1	2	0	0	2
ACC	175	Hotel & Restaurant Accounting	3	2	0	0	4
ACC	215	Ethics in Accounting	3	0	0	0	3
ACC	268	Information Systems & Internal Control	3	0	0	0	3
BUS	125	Personal Finance	3	0	0	0	3
BUS	217	Employment Law and Regulations	3	0	0	0	3
BUS	225	Business Finance	2	2	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	260	Business Communication	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
CTS	130	Spreadsheet	2	2	0	0	3
DBA	110	Database Concepts	2	3	0	0	3

INT	110	International Business	3	0	0	0	3
WEB	250	Database Driven Websites	2	2	0	0	3
WEB	260	E-Commerce Infrastructure	2	2	0	0	3
COE	110	World of Work	1	0	0	0	1
COE	111	Co-Op Work Experience I	0	0	0	10	1
COE	112	Co-Op Work Experience I	0	0	0	20	2
COE	113	Co-Op Work Experience I	0	0	0	30	3
COE	121	Co-Op Work Experience II	0	0	0	10	1
COE	122	Co-Op Work Experience II	0	0	0	20	2
COE	131	Co-Op Work Experience III	0	0	0	10	1
COE	132	Co-Op Work Experience III	0	0	0	20	2

Accounting Diploma Program (D25100)

Courses				Credits Hours
■	ACC	120	Principles of Financial Accounting	4
■	ACC	121	Principles of Managerial Accounting	4
■	ACC	129	Individual Income Taxes	3
	ACC	132	NC Business Taxes	2
	ACC	140	Payroll Accounting	2
	ACC	150	Accounting Software Applications	2
	ACC	220	Intermediate Accounting I	4
■	BUS	115	Business Law I	3
	BUS	137	Principles of Management	3
	CIS	110	Introduction to Computers	3
	ENG	111	Expository Writing	3
	ENG	114	Professional Research & Reporting	3
	PSY	150	General Psychology	3
Total Semester Hours Credit:				39

■ This is a Core Course and cannot be substituted.

Accounting Certificate Programs (C25100)

Courses				Credit Hours
Technical Track Certificate (C25100TT)				
ACC	120	Principles of Financial Accounting		4
ACC	121	Principles of Managerial Accounting		4
ACC	129	Individual Income Taxes		3
ACC	220	Intermediate Accounting I		4
ACC	225	Cost Accounting		3
Total Semester Hours Credit:				18
Managerial Track Certificate (C25100MT)				
ACC	120	Principles of Financial Accounting		4
ACC	121	Principles of Managerial Accounting		4
ACC	220	Intermediate Accounting I		4
ACC	225	Cost Accounting		3
ACC	269	Auditing & Assurance Services		3
Total Semester Hours Credit:				18
Government Track Certificate (C25100GT)				

Government Track Certificate (C25100G)			
ACC	120	Principles of Financial Accounting	4
ACC	121	Principles of Managerial Accounting	4
ACC	132	NC Business Taxes	2
ACC	220	Intermediate Accounting I	4
ACC	240	Government & Non-Profit Accounting	3
Total Semester Hours Credit:			17
Tax Track Certificate (C25100XT)			
ACC	120	Principles of Financial Accounting	4
ACC	121	Principles of Managerial Accounting	4
ACC	129	Individual Income Taxes	3
ACC	132	NC Business Taxes	2
ACC	140	Payroll Accounting	2
ACC	150	Accounting Software Applications	2
Total Semester Hours Credit:			17
Personal Finances Certificate (C25100PF)			
ACC	120	Principles of Financial Accounting	4
ACC	129	Individual Income Taxes	3
ACC	132	NC Business Taxes	2
ACC	140	Payroll Accounting	2
BUS	125	Personal Finance	3
BUS	217	Employment Law and Regulations	3
Total Semester Hours Credit:			17
Accounting Systems Track Certificate (C25100AS)			
ACC	120	Principles of Financial Accounting	4
ACC	121	Principles of Managerial Accounting	4
ACC	149	Intro. to Accounting Spreadsheets	2
ACC	268	Information Systems & Internal Control	3
DBA	110	Database Concepts	3
Total Semester Hours Credit:			16
Accounting E-Commerce Track Certificate (C25100EC)			
ACC	120	Principles of Financial Accounting	4
ACC	268	Information Systems & Internal Control	3
DBA	110	Database Concepts	3
WEB	250	Database Driven Websites	3
WEB	260	E-Commerce Infrastructure	3
Total Semester Hours Credit:			16

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Business Administration

Department: Liberal Arts and General Education

Award(s) Offered:

A25120 - [Associate in Applied Science Degree](#)

D25120 - [Diploma Program](#)

C25120 - [Certificate Programs](#)

For additional information regarding this program,
contact **Program Head Garland Fulp**
Phone: [704-216-3770](tel:704-216-3770) / Email: garland.fulp@rccc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

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

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Suggested Course Sequence:

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
	BUS 110	Introduction to Business	3	0	0	0	3
■	CIS 110	Introduction to Computers	2	2	0	0	3
	ENG 111	Expository Writing	3	0	0	0	3
	INT 110	International Business	3	0	0	0	3
	MAT 140	Survey of Mathematics	3	0	0	0	3
OR							
	MAT 161	College Algebra	3	0	0	0	3
OR							
	MAT 175	PreCalculus	4	0	0	0	4
Total			14-15	4	0	0	16-17
First Year (Spring)							
■	ACC 120	Principles of Financial Accounting	3	2	0	0	4

■	BUS	115	Business Law I	3	0	0	0	3
■	ECO	151	Survey of Economics	3	0	0	0	3
	ENG	114	Professional Research & Reporting	3	0	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
			Total	15	2	0	0	16

Second Year (Fall)

■	ACC	121	Principles of Managerial Accounting	3	2	0	0	4
■	BUS	137	Principles of Management	3	0	0	0	3
	BUS	260	Business Communication	3	0	0	0	3
■	MKT	120	Principles of Marketing	3	0	0	0	3
	---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
	---	---	Major Elective*	3	0	0	0	3
			Total	15-18	2-4	0	0	19

Second Year (Spring)

	BUS	225	Business Finance	2	2	0	0	3
	CTS	130	Spreadsheet	2	2	0	0	3
	---	---	Major Elective*	10	0	0	0	10
			Total	14	4	0	0	16

Total Semester Hours Credit (SHC) in Program:

67-68

■ This is a Core Course and cannot be substituted.

***Major Electives:**

Select 13 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
BUS	121	Business Mathematics	2	2	0	0	3
BUS	153	Human Resource Management	3	0	0	0	3
BUS	217	Employment Law & Regulations	3	0	0	0	3
BUS	230	Small Business Management	3	0	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	253	Leadership & Management Skills	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
INT	115	Global Communications	3	0	0	0	3
MKT	123	Fundamentals of Selling	3	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	3
MKT	223	Customer Service	3	0	0	0	3
MKT	224	International Marketing	3	0	0	0	3
OST	131	Keyboarding	1	2	0	0	2
OST	136	Word Processing	1	2	0	0	2
SPA	111	Elementary Spanish I	3	0	0	0	3
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

Business Administration Diploma Program (D25120)

Courses				Credits	Hours
■	ACC	120	Principles of Financial Accounting	4	
	ACC	121	Principles of Managerial Accounting	4	
	BUS	110	Introduction to Business	2	

Programs of Study			
	BUS	110	Introduction to Business
■	BUS	115	Business Law I
	BUS	121	Business Mathematics
■	BUS	137	Principles of Management
	BUS	260	Business Communication
■	CIS	110	Introduction to Computers
■	ECO	151	Survey of Economics
	ENG	111	Expository Writing
■	MKT	120	Principles of Marketing
	---	---	Social/Behavioral Sciences Elective
Total Semester Hours Credit:			38

■ This is a Core Course and cannot be substituted.

Business Administration Certificate Programs (C25120)

Courses			Credit Hours
Business Accounting Certificate (C2510BA)			
ACC	120	Principles of Financial Accounting	4
BUS	121	Business Mathematics	3
BUS	225	Business Finance	3
BUS	260	Business Communication	3
Total Semester Hours Credit:			13
Small Business Management Certificate (C25120SB)			
BUS	137	Principles of Management	3
BUS	153	Human Resource Management	3
BUS	230	Small Business Management	3
BUS	240	Business Ethics	3
BUS	253	Leadership & Management Skills	3
Total Semester Hours Credit:			15
Business Management Certificate (C25120BM)			
BUS	115	Business Law I	3
BUS	137	Principles of Management	3
BUS	153	Human Resource Management	3
BUS	240	Business Ethics	3
BUS	253	Leadership & Management Skills	3
Total Semester Hours Credit:			15
General Business Certificate (C25120GB)			
BUS	110	Introduction to Business	3
BUS	121	Business Mathematics	3
BUS	137	Principles of Management	3
BUS	260	Business Communication	3
CIS	110	Introduction to Computers	3
Total Semester Hours Credit:			15
Business Computing Certificate (C25120BC)			
BUS	110	Introduction to Business	3
BUS	260	Business Communication	3
CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	3
OST	136	Word Processing	2

Total Semester Hours Credit:	14
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This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Business Administration: Marketing and Retailing

Department: Liberal Arts and General Education

Award(s) Offered:

A2512F - [Associate in Applied Science Degree](#)

D2512F - [Diploma Program](#)

C2512F - [Certificate Programs](#)

For additional information regarding this program,
contact **Program Head David Cox**
Phone: [704-216-3765](tel:704-216-3765) / Email: dc@rowancc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

Description:

Marketing and Retailing is a concentration under the curriculum title of Business Administration. This curriculum is designed to provide students with fundamental skills in marketing and retailing.

Course work includes marketing, retailing, merchandising, selling, advertising, computer technology, and management.

Graduates should qualify for marketing positions within manufacturing, retailing, and service organizations.

Suggested Course Sequence:

The following is a suggested program of study for completing this program in four semesters. Some students' programs of study may be different, depending on their enrollment status (day, evening, full-time, or part-time).

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
	ACA 115	Success and Study Skills	0	2	0	0	1
■	BUS 115	Business Law I	3	0	0	0	3
■	CIS 110	Introduction to Computers	2	2	0	0	3
	ENG 111	Expository Writing	3	0	0	0	3
	INT 110	International Business	3	0	0	0	3
■	MKT 120	Principles of Marketing	3	0	0	0	3
	----	Major Elective*	0-3	0-2	0	0-30	3
		Total	14-17	4-6	0	0-30	19
First Year (Spring)							
■	ECO 151	Survey of Economics	3	0	0	0	3
	ENG 114	Professional Research & Reporting	3	0	0	0	3
■	MKT 122	Visual Merchandising	3	0	0	0	3
■	MKT 123	Fundamentals of Selling	3	0	0	0	3
	MAT 140	Survey of Mathematics	3	0	0	0	3
		OR					
	MAT 161	College Algebra	3	0	0	0	3

			OR					
	MAT	175	Precalculus	4	0	0	0	4
			Total	15-16	0	0	0	15-16
Second Year (Fall)								
■	ACC	120	Principles of Financial Accounting	3	2	0	0	4
■	BUS	137	Principles of Management	3	0	0	0	3
	BUS	260	Business Communication	3	0	0	0	3
■	MKT	220	Advertising & Sales Promotion	3	0	0	0	3
	---	---	Social/Behavioral Sciences Elective	3	0	0	0	3
			Total	15	2	0	0	16
Second Year (Spring)								
■	MKT	225	Marketing Research	3	0	0	0	3
■	MKT	226	Retail Applications	3	0	0	0	3
	---	---	Humanities/Fine Arts Elective	3	0	0	0	3
			Major Electives*	0-3	0-2	0	0-30	10
			Total	9-12	0-2	0	0-30	19
Total Semester Hours Credit (SHC) in Program:								69-70

■ **This is a Core Course and cannot be substituted.**

***Major Electives:**

Select 13 semester hour credits from the following courses. This may include up to 3 SHC from COE course/combination of courses:

		Title	Class	Lab	Clinical	Work Exp.	Credits
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
BUS	110	Introduction to Business	3	0	0	0	3
BUS	121	Business Mathematics	2	2	0	0	3
BUS	225	Business Finance	2	2	0	0	3
BUS	230	Small Business Management	3	0	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	253	Leadership & Management Skills	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
CTS	130	Spreadsheet	2	2	0	0	3
INT	115	Global Communications	3	0	0	0	3
MKT	125	Buying & Merchandising	3	0	0	0	3
MKT	221	Consumer Behavior	3	0	0	0	3
MKT	223	Customer Service	3	0	0	0	3
MKT	224	International Marketing	3	0	0	0	3
OST	131	Keyboarding	1	2	0	0	2
SPA	111	Elementary Spanish I	3	0	0	0	3
COE	110	World of Work	1	0	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1

Business Administration: Marketing & Retailing Diploma Program (D2512F)

Courses				Credits Hours
■	ACC	120	Principles of Financial Accounting	4
■	BUS	115	Business Law I	3
	BUS	121	Business Mathematics	3
■	BUS	137	Principles of Management	3

■	CIS	110	Introduction to Computers	3
■	ECO	151	Survey of Economics	3
	ENG	111	Expository Writing	3
	MKT	120	Principles of Marketing	3
	MKT	122	Visual Merchandising	3
	MKT	123	Fundamentals of Selling	3
	MKT	220	Advertising & Sales Promotion	3
	MKT	225	Marketing Research	3
	---	---	Social/Behavioral Sciences Elective	3
Total Semester Hours Credit:				40

■ **This is a Core Course and cannot be substituted.**

Business Administration: Marketing & Retailing Certificate Programs (C2512F)

Courses				Credit Hours
Marketing & Sales Certificate (C2512FMS)				
MKT	120	Principles of Marketing		3
MKT	122	Visual Merchandising		3
MKT	123	Fundamentals of Selling		3
MKT	220	Advertising & Sales Promotion		3
MKT	225	Marketing Research		3
Total Semester Hours Credit:				15
Marketing Management Certificate (C2512FMM)				
ACC	120	Principles of Financial Accounting		4
BUS	137	Principles of Management		3
BUS	253	Leadership & Management Skills		3
MKT	120	Principles of Marketing		3
Total Semester Hours Credit:				13
General Marketing Certificate (C2512FGM)				
CIS	110	Introduction to Computers		3
MKT	120	Principles of Marketing		3
MKT	122	Visual Merchandising		3
MKT	123	Fundamentals of Selling		3
MKT	220	Advertising & Sales Promotion		3
Total Semester Hours Credit:				15

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Associate in Science (A.S.)

Department: [Science, Biotechnology & Mathematics](#)

Award(s) Offered:

A10400 - [Associate in Science Degree](#)

D10400 - [Associate in Science Diploma](#)

For additional information regarding this program, contact **Dean Marcy Corjay**

Phone: [704-216-7217](tel:704-216-7217) / Email: marcy.corjay@rccc.edu

Full-Time Faculty Information:

Please refer to the [Faculty Directory Listing](#).

The Associate in Science (AS) degree is awarded for study in science and mathematics. This program is recommended for students planning to pursue programs of study in Agriculture, Dentistry, Engineering, Forestry, Furniture, Mathematics, Medicine, Science, Textiles, or other areas leading to a Bachelor of Science degree. This degree program offers courses comparable to the freshman and sophomore levels at four-year colleges and universities. Academic advisors are available to assist students in selecting courses that best meet students' interests and the requirements of transfer institutions. Because course requirements vary among four-year institutions, students should obtain current catalogs from the schools they plan to attend.

A comprehensive articulation agreement between the North Carolina Community College System and the North Carolina University System facilitates the transfer process for students wishing to attend a four-year institution within the N.C. University System. Because of this agreement, students who complete the general education core at RCCC will have satisfied the universities' general education requirements and become eligible to enroll with junior level status upon completion of the Associate in Science degree. Courses included in the articulation agreement are designated in the RCCC catalog Course Descriptions. Community college graduates who have earned 64 semester hours of academic credit in approved transfer courses with a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 64 semester hours of academic credit upon admission to a university.

A similar articulation agreement between RCCC and Catawba College facilitates the transfer process for students wishing to complete their four-year degrees at Catawba. Because of this agreement, RCCC students can satisfy all but one course needed to complete general education requirements for Catawba College. Some RCCC upper level junior/senior credits also may transfer. Courses included in the articulation agreement are designated in the RCCC catalog course descriptions.

Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving institutions.

In addition to the 44 semester hours credit (SHC) general education core, students must complete 1 SHC in College Transfer Success (ACA 122), and 20 SHC of college transfer general education, elective, and/or pre-major courses. Transfer of ACA 122 is not guaranteed.

Recommended Course Sequence :

Click here for [Recommended course sequence](#)

Course Information:

	Title	Class	Lab	Clinical	Work Exp.	Credits
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The following success and study skills course (one semester hour credit) must be taken in the first semester by all

The following success and study skills course (one semester, non-credit) must be taken in the first semester by all students pursuing the Associate in Science degree. This course may not transfer to a senior institution.

ACA	122	College Transfer Success	1	0	0	0	1
General Education (44 SHC)							
English Composition (6 SHC)							
ENG	111	Expository Writing	3	0	0	0	3
Select one course from the following:							
ENG	112	Argument-Based Research	3	0	0	0	3
ENG	113	Literature-Based Research	3	0	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
Humanities/Fine Arts: (9 SHC)							
Select three courses from at least three of the following discipline areas: music, art, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. Note: at least one course must be a literature course.							
Literature (3 SHC) - Select one course from the following							
(Speech/Communication may not substitute for the literature requirement.)							
ENG	131	Introduction to Literature	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	243	Major British Writers	3	0	0	0	3
ENG	251	Western World Literature I	3	0	0	0	3
ENG	252	Western World Literature II	3	0	0	0	3
ENG	261	World Literature I	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
Select two courses (6 SHC) from at least two of the following discipline areas:							
Art							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	116	Survey of American Art	3	0	0	0	3
Drama							
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	126	Story Telling	3	0	0	0	3
Foreign Languages							
FRE	111	Elementary French I	3	0	0	0	3
FRE	112	Elementary French II	3	0	0	0	3
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	0	3
Humanities							
HUM	110	Technology and Society	3	0	0	0	3
HUM	115	Critical Thinking	3	0	0	0	3
HUM	122	Southern Culture	3	0	0	0	3
HUM	130	Myth in Human Culture	3	0	0	0	3
HUM	160	Introduction to Film	2	2	0	0	3
HUM	161	Advanced Film Studies	2	2	0	0	3

HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
Music							
MUS	110	Music Appreciation	3	0	0	0	3
MUS	113	American Music	3	0	0	0	3
MUS	210	History of Rock Music	3	0	0	0	3
MUS	213	Opera and Musical Theatre	3	0	0	0	3
Philosophy							
PHI	210	History of Philosophy	3	0	0	0	3
PHI	220	Western Philosophy I	3	0	0	0	3
PHI	221	Western Philosophy II	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
Religion							
REL	110	World Religions	3	0	0	0	3
REL	211	Introduction to Old Testament	3	0	0	0	3
REL	212	Introduction to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
Speech/Communication (one of the following courses may be substituted for 3 SHC in Humanities/Fine Arts)							
COM	110	Introduction to Communication	3	0	0	0	3
COM	120	Introduction to Interpersonal Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
Social/Behavioral Sciences (9SHC)							
Select three courses from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. Note: at least one course must be a history course.							
History (select one course (3 SHC) from the following)							
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	121	Western Civilization I	3	0	0	0	3
HIS	122	Western Civilization II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
Students must select two courses (6 SHC) from at least two of the following discipline areas:							
Anthropology							
ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ANT	221	Comparative Cultures	3	0	0	0	3
ANT	230	Physical Anthropology	3	0	0	0	3
ANT	230A	Physical Anthropology Lab	0	2	0	0	1
ANT	240	Archaeology	3	0	0	0	3
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Geography							
GEO	111	World Regional Geography	3	0	0	0	3
GEO	112	Cultural Geography	3	0	0	0	3
GEO	113	Economic Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
Political Science							
POL	110	Introduction to Political Science	3	0	0	0	3
POL	120	American Government	3	0	0	0	3

COURSE	LEVEL	COURSE DESCRIPTION	3	4	5	6	7
POL	210	Comparative Government	3	0	0	0	3
POL	220	International Relations	3	0	0	0	3
Psychology							
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	239	Psychology of Personality	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SOC	225	Social Diversity	3	0	0	0	3
SOC	230	Race and Ethnic Relations	3	0	0	0	3
SOC	240	Social Psychology	3	0	0	0	3
Natural Sciences/Mathematics (20 SHC)							
Natural Sciences (8 SHC minimum)							
A minimum two-course sequence (including accompanying laboratory work) from the following general biology, general chemistry, or general physics courses is required:							
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4
Mathematics (6 SHC minimum)							
One course in mathematics at the precalculus algebra level or above is required. The other course(s) may be higher level mathematics or may be selected from among other quantitative subjects, such as computer science and statistics.							
Precalculus algebra level or above (Select one:)							
MAT	175	Precalculus	4	0	0	0	4
MAT	263	Brief Calculus	3	0	0	0	3
Select one course from the following:							
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro. to Programming & Logic	2	3	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	263	Brief Calculus	3	0	0	0	3
MAT	271	Calculus I	3	2	0	0	4
Students should check with the university of their choice to make sure that they complete the appropriate math course.							
Additional General Education Core Hours in Natural Sciences/Mathematics (select 6 SHC from the following courses):							
AST	151	General Astronomy I	3	0	0	0	3
AST	151A	General Astronomy I Lab	0	2	0	0	1
AST	152	General Astronomy II	3	0	0	0	3
AST	152A	General Astronomy II Lab	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	0	1
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	0	1

CHM	131A	Introduction to Chemistry Lab	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
MAT	151	Statistics I	3	0	0	0	3
MAT	175	Precalculus	4	0	0	0	4
MAT	263	Brief Calculus	3	0	0	0	3
MAT	271	Calculus I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4

A diploma may be awarded for this program after completing the entire general education core, as outlined above, with a grade of "C" or better in each course.

Other Required Hours (20 SHC)

Natural Science, Mathematics, Computer Science Electives (14 SHC)

A minimum of 14 SHC of college transfer courses in mathematics, natural sciences or computer science is required. Select 14 SHC from the following courses or from the Natural Sciences/Mathematics courses listed above.

AST	251	Observational Astronomy	1	3	0	0	2
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
BIO	168	Anatomy and Physiology I	3	3	0	0	4
BIO	169	Anatomy and Physiology II	3	3	0	0	4
BIO	250	Genetics	3	3	0	0	4
BIO	275	Microbiology	3	3	0	0	4
BIO	280	Biotechnology	2	3	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	239	Advanced Visual BASIC Programming	2	3	0	0	3
MAT	151A	Statistics I Lab	0	2	0	0	1
MAT	161	College Algebra	3	0	0	0	3

General Electives (6 SHC)

It is recommended that these electives be chosen from the Natural Science/Mathematics core courses or Natural Science, Mathematics, and Computer Science elective courses listed above. Electives also may be chosen from the following list of general education, pre-major, or elective courses.

ACC	120	Principles of Financial Accounting	3	2	0	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	0	4
ANT	240A	Archaeology Field Lab	0	4	0	0	2
ANT	245	World Prehistory	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	212	Gallery Assistantship I	0	2	0	0	1
ART	214	Portfolio and Resumé	0	2	0	0	1
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	244	Watercolor	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	288	Studio	0	6	0	0	3

BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CHM	263	Analytical Chemistry	3	4	0	0	5
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	130	Nonverbal Communication	3	0	0	0	3
COM	140	Introduction to Intercultural Communication	3	0	0	0	3
COM	150	Introduction to Mass Communication	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	232	Election Rhetoric	3	0	0	0	3
COM	233	Persuasive Speaking	3	0	0	0	3
COM	251	Debate I	3	0	0	0	3
COM	252	Debate II	3	0	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	132	Introduction to Drama	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
ENG	273	African-American Literature	3	0	0	0	3
ENG	274	Literature by Women	3	0	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	0	3
HIS	163	The World Since 1945	3	0	0	0	3
HIS	226	The Civil War	3	0	0	0	3
HIS	227	Native American History	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
JOU	110	Introduction to Journalism	3	0	0	0	3
MUS	131	Chorus I	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	113	Aerobics I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	120	Walking for Fitness	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	128	Golf – Beginning	0	2	0	0	1
PED	142	Lifetime Sports	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
POL	130	State & Local Government	3	0	0	0	3
PSY	211	Psychology of Adjustment	3	0	0	0	3
PSY	215	Positive Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	243	Child Psychology	3	0	0	0	3
PSY	246	Adolescent Psychology	3	0	0	0	3
PSY	249	Psychology of Aging	3	0	0	0	3
SOC	234	Sociology of Gender	3	0	0	0	3
SOC	242	Sociology of Deviance	3	0	0	0	3

SOC	245	Drugs and Society	3	0	0	0	3
SOC	250	Sociology of Religion	3	0	0	0	3
TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM : 65							
<i>Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.</i>							

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Agricultural Biotechnology

Department: [Science, Biotechnology & Mathematics](#)

Award(s) Offered:

A20110 - [Associate in Applied Science Degree](#)

For additional information regarding this program,
contact **Dean Marcy Corjay**
Phone: [704-216-7217](tel:704-216-7217) / Email: marcy.corjay@rowancc.edu

Description:

The Agricultural Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological, chemical, and agricultural technology. The curriculum objectives are designed to prepare graduates to serve as a research assistant to a biologist or chemist; as a laboratory technician/ instrumentation technician; or as a quality control/quality assurance technician. The curriculum will also serve to identify/create new areas of opportunity for farmers and other potential clients in rural North Carolina.

Course work emphasizes biology, plant tissue culturing, biotechnology, agriculture, chemistry, horticulture, mathematics, and technical communication.

Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales, customer services, and production of alternative (bioengineered) crops.

Suggested Course Sequence:

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

First Year (Fall)

		Title	Class	Lab	Clinical	Work Exp.	Credits
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BTC	181	Basic Lab Techniques	3	3	0	0	4
ENG	111	Expository Writing	3	0	0	0	3
MAT	151	Statistics	3	0	0	0	3
MAT	151A	Statistics - Lab	0	2	0	0	1
Total			14	8	0	0	16

First Year (Spring)

■ AGR	160	Plant Science	2	2	0	0	3
BIO	112	General Biology II	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
ENG	112	Argument-Based Research	3	0	0	0	3

		OR						
ENG	114	Professional Research & Reporting	3	0	0	0	3	
		Total	11	8	0	0	14	
First Year (Summer)								
BIO	275	Microbiology	3	3	0	0	4	
CIS	110	Introduction to Computers	2	2	0	0	3	
		Total	5	5	0	0	7	
Second Year (Fall)								
BIO	250	Genetics	3	3	0	0	4	
■ BIO	280	Biotechnology	2	3	0	0	3	
■ BTC	285	Cell Culture	2	3	0	0	3	
CHM	132	Organic and Biochemistry	3	3	0	0	4	
■ HOR	168	Plant Propagation	2	2	0	0	3	
		Total	12	11	0	0	17	
Second Year (Spring)								
AGR	214	Agricultural Marketing	3	0	0	0	3	
		OR						
HOR	134	Greenhouse Operations	2	2	0	0	3	
■ BTC	150	Bioethics	3	0	0	0	3	
BTC	270	Recombinant DNA Techniques	3	3	0	0	4	
■ BTC	286	Immunological Techniques	3	3	0	0	4	
PSY	118	Interpersonal Psychology	3	0	0	0	3	
		OR						
PSY	150	General Psychology	3	0	0	0	3	
		Total	14-15	6-8	0	0	17	
Second Year (Summer)								
BTC	288	Biotech Lab Experience	0	6	0	0	2	
---	---	Humanities/Fine Arts	3	0	0	0	3	
		Total	3	6	0	6	5	
Total Semester Hours Credit (SHC) in Program:								76

■ This is a Core Course and cannot be substituted.

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Biotechnology

Department: [Science, Biotechnology & Mathematics](#)

Award(s) Offered:

A20100 - [Associate in Applied Science Degree](#)

For additional information regarding this program,
contact **Dean Marcy Corjay**.

Phone: [704-216-7217](tel:704-216-7217) / Email: marcy.corjay@rowancc.edu

Description:

The Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological and chemical technology.

Course work emphasizes biology, chemistry, mathematics, and technical communications. The curriculum objectives are designed to prepare graduates to serve in three distinct capacities: research assistant to a biologist or chemist, laboratory technician/instrumentation technician, and quality control/quality assurance technician.

Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales, and customer service.

Suggested Course Sequence:

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

		Title	Class	Lab	Clinical	Work Exp.	Credits
First Year (Fall)							
ACA	115	Success and Study Skills	0	2	0	0	1
■ BIO	111	General Biology I	3	3	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	115	Mathematical Models	2	2	0	0	3
		OR					
MAT	161	College Algebra	3	0	0	0	3
		OR					
MAT	175	PreCalculus	4	0	0	0	4
		Total	10-12	7-9	0	0	14-15
First Year (Spring)							
■ BIO	112	General Biology II	3	3	0	0	4
■ BTC	181	Basic Lab Techniques	3	3	0	0	4
■ CHM	131	Introduction to Chemistry	3	0	0	0	3
		AND					
■ CHM	131A	Introduction to Chemistry Lab	0	0	0	0	1

■ CHM	131A	Introduction to Chemistry - Lab	0	3	0	0	1
		OR					
■ CHM	151	General Chemistry I	3	3	0	0	4
ENG	112	Argument-Based Research	3	0	0	0	3
		OR					
ENG	114	Professional Research & Reporting	3	0	0	0	3
		Total	12	9	0	0	15

First Year (Summer)

BIO	275	Microbiology	3	3	0	0	4
---	---	Humanities / Fine Arts Elective	3	0	0	0	3
		Total	6	3	0	0	7

Second Year (Fall)

BIO	250	Genetics	3	3	0	0	4
BTC	285	Cell Culture	2	3	0	0	3
■ CHM	132	Organic and Biochemistry	3	3	0	0	4
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics I - Lab	0	2	0	0	1
		Total	11	11	0	0	15

Second Year (Spring)

BTC	270	Recombinant DNA Techniques	3	3	0	0	4
PSY	118	Interpersonal Psychology	3	0	0	0	3
		OR					
PSY	150	General Psychology	3	0	0	0	3
		Select two of the following courses:					
BTC	281	Bioprocess Techniques	2	6	0	0	4
BTC	286	Immunological Techniques	3	3	0	0	4
CHM	263	Analytical Chemistry	3	4	0	0	5
		Total	11-12	10-13	0	0	15-16

Second Year (Summer)

BTC	288	Biotech Lab Experience	0	6	0	0	2
		OR					
COE	111	Co-Op Work Experience I	0	0	0	10	1
		OR					
COE	112	Co-Op Work Experience I	0	0	0	20	2
		Total	0	0-6	0	0-20	1-2

Total Semester Hours Credit (SHC) in Program:

67-70

Students wishing to take the Bioprocess Manufacturing Option should select the following sequence for the second year spring and summer semesters:

Second Year (Spring)

BTC	270	Recombinant DNA Techniques	3	3	0	0	4
PSY	118	Interpersonal Psychology	3	0	0	0	3
		OR					
PSY	150	General Psychology	3	0	0	0	3
BTC	281	Bioprocess Techniques	2	6	0	0	4
BTC	282	Fermentation I	2	6	0	0	4
		Total	10	15	0	0	15

Second Year (Summer)

BTC	283	Fermentation II	2	6	0	0	4
		Total	2	6	0	0	4

- **This is a Core Course and cannot be substituted.**

This program offers various courses via [distance education](#). See our [Catalog](#) for a listing of these courses.

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Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives for Associate in Applied Science Programs and Diploma Programs

HUMANITIES / FINE ARTS

ART 111	** HUM 115	REL 110
ART 114	HUM 122	REL 211
ART 116	HUM 130	REL 212
* ENG 231	HUM 160	REL 221
* ENG 232	HUM 161	
* ENG 241	HUM 211	
* ENG 242	HUM 212	
* ENG 243	MUS 110	
* ENG 251	MUS 113	
* ENG 252	MUS 210	
* ENG 261	MUS 213	
* ENG 262	PHI 210	
* ENG 272	PHI 220	
* ENG 273	PHI 221	
* ENG 274	PHI 230	
HUM 110	PHI 240	

SOCIAL / BEHAVIORAL SCIENCES

ANT 210	HIS 121	PSY 237
ANT 220	HIS 122	PSY 239
ANT 221	HIS 131	PSY 241
ANT 230	HIS 132	PSY 249
ANT 230A	HIS 163	PSY 281
ANT 240	HIS 226	PSY 210
ECO 151	HIS 236	PSY 213
ECO 251	POL 110	PSY 220
ECO 252	POL 120	PSY 225
GEO 111	POL 130	PSY 230
GEO 112	POL 210	PSY 234
GEO 113	POL 220	PSY 240
GEO 121	PSY 110	PSY 242
GEO 130	PSY 118	PSY 250
HIS 111	PSY 150	
HIS 112	PSY 211	

* These ENG courses require a prerequisite or corequisite of ENG 112, ENG 113, or ENG 114. Automotive Systems Technology and Radiography do not require ENG 112, ENG 113, or ENG 114 in their program of study. Therefore, these ENG courses will not satisfy the Humanities/Fine Arts requirements for these three programs.

** HUM 115 may meet the SACS humanities requirement for AAS degree programs.

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